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Many thanks and deep appreciation are due to all the reviewers listed here for the time and effort they have put in to describe and critique books for the benefit of the engineering science community.

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Model of nonlocal continuum mechanics - Part I: Existence and regularity, SIAM J Appl Math **58**(4) 1278-1306 (Aug 1998), 1A1
Objective corotational rates and their defining spin tensors, Int J Solids Struct **35**(30) 4001-4014 (Oct 1998), 1A2
Representations of Kronecker powers of orthogonal tensors with applications to material symmetry, Int J Solids Struct **35**(30) 3935-3944 (Oct 1998), 1A3
Asymptotic description of the logarithmic singular stress field and its application, Int J Solids Struct **35**(30) 3917-3933 (Oct 1998), 1A519
Special topics in structural mechanics and materials: A volume in honor of Professor Zdenek P Bazant, Int J Solids Struct **35**(31-32) 4025-4350 (Nov 1998), 1T872
New analytical procedure to determine stress-strain curve from spherical indentation data, Int J Solids Struct **35**(33) 4411-4426 (Nov 1998), 1A920
Analyse des Structures et Milieux Continus, Volume 3: Mecanique des Solides (French) (Presses Polytech et Univ Romandes, Lausanne, 1998) 2R1
Driving traction on phase boundary interfaces in solids with BEs, Comput Mech **22**(1) 19-25 (Jul 1998), 2A1
Symmetric representation of stress and strain in the Stroh formalism and physical meaning of the tensors L, S, L (θ) and S (θ), J Elast **50**(1) 91-96 (1998), 2A2
Mechanics and Thermodynamics of Continuous Media (Springer-Verlag, New York, 1997) 3R27
Determination of the rotation tensor in the polar decomposition, J Elast **50**(3) 197-208 (1998), 4A1
Effects of Saint-Venant type and uniqueness and continuous dependence results for incremental elastodynamics, Int J Non-Linear Mech **34**(1) 159-167 (Jan 1999), 4A2
Instability of an internally constrained hyperelastic material, Int J Non-Linear Mech **34**(1) 169-177 (Jan 1999), 4A3
Note about 3D exact dynamical solutions for neo-Hookean materials, Int J Non-Linear Mech **34**(1) 1-4 (Jan 1999), 4A4
Representation of symmetric isotropic 4-tensors, J Elast **51**(1) 73-79 (1998), 5A1
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Pure shears in the mechanics of materials, Math Mech Solids **3**(4) 471-503 (Dec 1998), 5A423
Damage mechanics: Basic variables in continuum theories, Int J Solids Struct **36**(5) 747-761 (Feb 1999), 6A1
Identification of the Lagrange and Euler coordinates in mechanics of continua (Russian), Prikl Mekh (Appl Mech) **34**(10) 50-54 (1998), 6A2
Several new methods to polar decomposition computation, Acta Mech Solida Sinica **11**(4) 329-340 (1998), 6A3
Material symmetries of micropolar continua equivalent to lattices, Int J Solids Struct **36**(14) 2091-2108 (May 1999), 7A1
New representations of spin tensors, Mech Res Commun **26**(1) 1-6 (Jan-Feb 1999), 7T2
Review of the application of Newton's third law in physics, Prog Energy Combust Sci **25**(2) 161-210 (1999), 7A3
Asymmetric theory of nonlocal elasticity - Part 1: Quasicontinuum theory, Int J Solids Struct **36**(20) 2947-2958 (Jul 1999), 8A1
Asymmetric theory of nonlocal elasticity - Part 2: Continuum field, Int J Solids Struct **36**(20) 2959-2971 (Jul 1999), 8A2
Consistency of some Eulerian strain rates, Z Angew Math Mech **79**(3) 171-177 (1999), 8A3
Equivalence between higher-order stress power and heat flux in energy equation based on lattice dynamics, J Eng Mat Tech **121**(2) 240-246 (Apr 1999), 8A4
Geometry of Langrangian and Eulerian descriptions of continuum mechanics, Z Angew Math Mech **79**(2) 131-138 (1999), 8A5
New intergrid transfer operator in multigrid method for P_1-nonconforming FEM, Appl Math Comput **100**(2-3) 139-149 (May 1999), 8A6
State of pure shear, J Elast **52**(1) 91-98 (1998), 8A7
Adaptive FE approach to atomic-scale mechanics: The quasicontinuum method, J Mech Phys Solids **47**(3) 611-642 (Mar 1999), 8A16
IUTAM Symposium of Non-Linear Singularities in Deformation and Flow (Kluwer, Netherlands, 1998) 9N5
Orientational relaxation and flow near boundaries in nematic liquid crystals, Int J Eng Sci **37**(5) 575-607 (Apr 1999), 9A1
Singularity detection in experimental data by means of wavelet transform, J Fluids Eng **121**(2) 418-421 (Jun 1999), 9A11
Isotropy postulate for finite deformations (Russian), Prikl Mekh (Appl Mech) **35**(1) 17-27 (1999), 10A1
Nonexistence of some special eigenfunctions for the Dirichlet Laplacian and the Lame system, J Elast **52**(2) 111-120 (1998), 10A2
Note on kinematics of surfaces, Arch Mech **50**(3) 613-621 (1998), 10A3
Objectivity and frame indifference, revisited, Arch Mech **50**(3) 541-547 (1998), 10A4
Pseudomomentum in relativistic continuum mechanics, Arch Mech **50**(3) 521-530 (1998), 10A5
System symmetries and inverse variational problems in continuum theory, Arch Mech **50**(3) 599-611 (1998), 10T6
Thirtieth Anniversary Symposium of the Japan Society of Fluid Mechanics held on July 31, 1998 at Kogakuin University in Tokyo, Fluid Dyn Res **24**(6) 315-404 (Jun 1999), 10A7
Two reinterpretations of Cosserat continuum: Fiber bundle versus the motor calculus, Arch Mech **50**(3) 367-376 (1998), 10A8
Group theoretical formulation of nonsymmetrical systems by the group supermatrix procedure, Comput Struct **71**(6) 637-649 (Jun 1999), 11A1
Optimal distribution of material properties for an elastic continuum with structure-dependent body force, Int J Solids Struct **36**(30) 4587-4608 (Oct 1999), 11A2
Representation of basic laws of continuum mechanics by 4 × 4 tensors, Mech Res Commun **26**(2) 145-150 (Mar-Apr 1999), 11T3
Continuum Mechanics for Engineers, Second Edition (CRC Press, Boca Raton FL, 1999) 12N3

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Anisotropic functions of vectors and second order tensors: All subgroups of the transverse isotropy group $C_{\infty h}$, Arch Mech **50**(2) 281-319 (1998), 1A4
Constitutive modeling of the deformation behavior of a precipitation hardened high temperature alloy, J Mech Behavior Mat **9**(1) 69-82 (1998), 1A5
Cosserat overall modeling of heterogeneous materials, Mech Res Commun **25**(4) 449-454 (Jul-Aug 1998), 1T6
Resistivity anisotropy identification using four-point probe method, J Tech Phys **39**(1) 133-141 (1998), 1A7
One-dimensional localization studied with a second grade model, Eur J Mech A **17**(4) 637-656 (1998), 1A567
Simple constitutive model for granular soils: Modified stress-dilatancy approach, Comput Geotech **22**(2) 109-133 (1998), 1A736
Continuum damage constitutive law for brittle rocks, Comput Geotech **22**(2) 135-151 (1998), 1A755
Constitutive equations of some weakly-textured materials, Arch Rational Mech Anal **143**(1) 77-103 (1998), 3A1
Constitutive theory for porous composite materials, Int J Solids Struct **35**(34-35) 4587-4596 (Dec 1998), 3A2
Development of tensor function in the continuum mechanics of anisotropic materials (German), Z Angew Math Mech **78**(8) 507-521 (1998), 3A3
Method for the determination of mechanical parameters in a porous elastically deformable medium: Applications to biological soft tissues, Int J Solids Struct **35**(34-35) 4963-4979 (Dec 1998), 3A4
Constitutive model with micro-slip mechanism and its application to large deformation problems (Japanese), Proc JSCE **598**(I-44) 257-268 (Jul 1998), 3A656
Thermodynamic structure and constitutive equations for fluid-saturated compressible and incompressible elastic porous solids, Int J Solids Struct **35**(34-35) 4557-4573 (Dec 1998), 3A1430
Apparent elastic constants of cubic crystals and their pressure derivatives, Int J Non-Linear Mech **34**(1) 5-11 (Jan 1999), 4A5
Waves features related to a mathematical model of hypoplasticity, Int J Non-Linear Mech **34**(1) 179-184 (Jan 1999), 4A6
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Constitutive model for fcc crystals with application to polycrystalline OFHC copper, Mech Mat **30**(4) 325-341 (Dec 1998), 5A4
Constitutive model for the non-shock ignition and mechanical response of high explosives, J Mech Phys Solids **46**(12) 2303-2322 (Dec 1998), 5A5
Exact relations for effective tensors of polycrystals - I: Necessary conditions, Arch Rational Mech Anal **143**(4) 309-329 (1998), 5A6
Exact relations for effective tensors of polycrystals - II: Applications to elasticity and piezoelectricity, Arch Rational Mech Anal **143**(4) 331-356 (1998), 5A7
Forms of the relation between the stress and strain tensors in a nonlinearly elastic material, J Appl Math Mech **62**(4) 599-604 (1998), 6A4
Second order constitutive theory for hyperelastic materials, Int J Solids Struct **36**(6) 847-868 (Feb 1999), 6A5
Note on the thermomechanics of curvature flows in R^3 and on surfaces in R^3, Meccanica **33**(6) 587-599 (Dec 1998), 6A9
Spring-network model and effective elastic moduli of granular materials, J Appl Mech **66**(1) 172-180 (Mar 1999), 8A1458
Monotone plastic constitutive equations with polynomial growth condition, Math Methods Appl Sci **22**(7) 547-562 (May 1999), 9A2
One-dimensional constitutive equation for temperature-rate sensitive materials, Mech Mat **31**(4) 289-293 (Apr 1999), 9T3
Steady-state constitutive relationship for idealized asphalt mixes, Mech Mat **31**(4) 271-287 (Apr 1999), 9A4
Constitutive equations for polycrystalline thermoelastic shape memory alloys - Part I: Intragranular interactions and behavior of the grain, Int J Solids Struct **36**(28) 4289-4315 (Oct 1999), 10A9
Effecting averages and changes of scale via weighting functions, Arch Mech **50**(3) 531-539 (1998), 10A10
Generalized parallelisms, Arch Mech **50**(3) 415-421 (1998), 10T11
Symmetric tensor-valued isotropic functions of a symmetric tensor and a skewsymmetric tensor and related transversely isotropic functions, Arch Mech **50**(4) 731-741 (1998), 10A12
Homogenization of heterogeneous polymers, Int J Solids Struct **36**(21) 3193-3214 (Jul 1999), 10A26
Use of the Hopkinson bar to validate constitutive relations at high rates of strain, J Mech Phys Solids **47**(5) 1187-1206 (May 1999), 10A34
Linearization and homogenization for viscoelastic materials (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 365-370 (Apr 1999), 10A588
Elasticity and plasticity of dilatant granular materials, J Mech Phys Solids **47**(6) 1397-1408 (Jun 1999), 10A620
Constitutive model for sintering of ceramic powder compacts with internal structure due to granules, JSME Int J Ser A **42**(1) 17-24 (Jan 1999), 10A658
Deformation and damage characteristics of porous materials under different triaxialities, JSME Int J Ser A **41**(1) 79-95 (Jan 1998), 10A919
Constitutive relation and failure criterion for Ti6Al4V alloy at impact rates of strain, J Mech Phys Solids **47**(5) 1157-1185 (May 1999), 10A927
Thermoelasticity analysis of periodic thin lines deposited on a substrate, J Mech Phys Solids **47**(5) 1113-1130 (May 1999), 10A1386
Constitutive model of brain tissue suitable for FE analysis of surgical procedures, J Biomech **32**(5) 531-537 (May 1999), 10A1620
Thermodynamically consistent modeling of viscoelastic fluid behavior, J Brazilian Soc Mech Sci **21**(1) 144-153 (Mar 1999), 11A6
New representation theorem for elastic constitutive equations of cubic crystals, J Elast **53**(1) 37-45 (1998), 12A1
Objective corotational rates and unified work-conjugacy relation between Eulerian and Lagrangean strain and stress measures, Arch Mech **50**(6) 1015-1045 (1998), 12A2

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Elementary proof of the fundamental property of a perfect gas, Arch Rational Mech Anal **142**(3) 281-292 (1998), 2A3
Equilibrium free energies from nonequilibrium processes, Acta Phys Polonica B **B29**(6) 1609-1622 (Jun 1998), 2A4
Computational modeling of nonequilibrium thermodynamics of the martensitic transformations, Comput Mech **22**(3) 239-254 (Sep 1998), 3A5
Improved numerical integration of perturbed oscillators via average, Appl Math Comput **99**(2-3) 129-139 (Mar 1999), 6A6
Thermodynamical theory of plastic spin and internal stress with dislocation density tensor, J Eng Mat Tech **121**(2) 247-253 (Apr 1999), 8A8
Thermomechanics of Continua (Springer-Verlag, Berlin, 1998) 9R1
Thermodynamic permeability and permittivity of polarizable systems, Int J Appl Electromagnetics Mech **10**(2) 123-141 (Apr 1999), 9A5
Variational approach to the thermo-electrodynamics of liquid crystals, Int J Eng Sci **37**(6) 771-802 (May 1999), 9A6
Dependence of dynamic phase transitions on parameters, Arch Mech **50**(5) 811-827 (1998), 10A13
Maxwell rule in phase-transitions, Arch Mech **50**(3) 623-627 (1998), 10A14
Particle-hole asymmetry in the BCS thermodynamics, Acta Phys Polonica B **B29**(12) 3885-3906 (Dec 1998), 10T15
Inverse problem for a linear vector field in thermodynamics, Reports Math Phys **41**(3) 351-360 (Jun 1998), 11A4
Self-interaction of Brownian particles coupled with thermodynamic processes, Reports Math Phys **42**(3) 359-372 (Dec 1998), 11T5
Thermodynamically consistent modeling of viscoelastic fluid behavior, J Brazilian Soc Mech Sci **21**(1) 144-153 (Mar 1999), 11A6
Working gases in thermoacoustic engines, J Acoust Soc Am **105**(5) 2677-2684 (May 1999), 11A7
Some aspects of Spencer and Gilmore thermodynamic equation of state, Arch Naukio Mat **19**(2) 115-128 (1998), 12A3
Some relevance between thermodynamics and theory of transport, Arch Naukio Mat **19**(4) 207-214 (1998), 12A4
Morphology, stability, and morphogenesis of dipole aggregates, Proc Estonian Acad Sci Eng **5**(2) 131-141 (Jun 1999), 12A1281

100D. Modeling of physical phenomena

Configurational forces and a constitutive theory for crack propagation that allows for kinking and curving, J Mech Phys Solids **46**(8) 1343-1378 (Aug 1998), 1A8
Dislocation field evolution and dislocation source-sink function, Acta Geophys Polonica **46**(1) 13-33 (1998), 1A9
Methodology for determining experimental uncertainties in regressions, J Fluids Eng **120**(3) 445-456 (Sep 1998), 1A10
Solid-solid phase transition modeling - Local and global minimizations of non-convex and relaxed potentials: Isothermal case for shape memory alloys, Int J Eng Sci **36**(10) 1143-1172 (Aug 1998), 1A11
Stability analysis of nonlinear cellular neural networks with hysteresis in the output dynamics, Appl Mech Eng **3**(2) 305-322 (1998), 1T12
Transversely isotropic biphasic model for unconfined compression of growth plate and chondroepiphysis, J Biomech Eng **120**(4) 491-496 (Aug 1998), 1A13
Observations on the potential functions for transverse isotropy in the presence of body forces, Int J Solids Struct **35**(28-29) 3793-3813 (Oct 1998), 1A521

Fiber-matrix-composite model with a combined confocal elliptical cylinder unit cell for predicting the effective longitudinal shear modulus, Int J Solids Struct **35**(30) 3977-3987 (Oct 1998), 1A600
Basic elementary particle as a martensite nucleus, J Mech Behavior Mat **9**(1) 43-46 (1998), 1A906
Multivariant model for single crystal shape memory alloy behavior, J Mech Phys Solids **46**(8) 1379-1409 (Aug 1998), 1A972
Heat transfer computations using an anisotropic model (French), Rev Francaise Mec **0**(2) 73-79 (Jun 1998), 1A1399
Elastic-viscoplastic model for excised facial tissues, J Biomech Eng **120**(5) 686-689 (Oct 1998), 1A1500
"Experimental" way of showing self-similarity, Acta Phys Polonica B **B29**(6) 1565-1577 (Jun 1998), 2T5
Backscattering in propagation of spherically symmetric massless scalar fields, Acta Phys Polonica B **B29**(4) 937-947 (Apr 1998), 2T6
Canonical structure of classical field theory in the polymomentum phase space, Reports Math Phys **41**(1) 49-90 (Feb 1998), 2T7
Deformation twinning in Cd single crystals, J Mech Behavior Mat **9**(2) 97-101 (1998), 2A8
Density of states for Drude-Lorentz model of nonpolar dielectric, Acta Phys Polonica B **B29**(6) 1795-1801 (Jun 1998), 2T9
Effect of crystal diameter and orientation formation in white tin single crystals, J Mech Behavior Mat **9**(2) 141-145 (1998), 2A10
Group structure in copernican quasicrystallography, Acta Phys Polonica B **B29**(4) 845-848 (Apr 1998), 2T11
Hamiltonian structure for classical electrodynamics of a point particle, Reports Math Phys **41**(1) 13-48 (Feb 1998), 2T12
Influence of the γ-radiation on the generation characteristics of the YAlO$_3$:Nd crystals, Acta Phys Polonica A **93**(4) 643-648 (Apr 1998), 2T13
Monoharmonic approximation in the problems of deformation of visco-plastic bodies under harmonic loading (Russian), Prikl Mekh (Appl Mech) **33**(7) 57-64 (1997), 2A14
Phase behavior of amphiphilic systems, Acta Phys Polonica B **B29**(6) 1815-1825 (Jun 1998), 2T15
Poisson's ratio for orthorhombic materials, J Elast **50**(1) 87-89 (1998), 2A16
R-matrix approach to multi-Hamiltonian lax dynamics, Reports Math Phys **40**(3) 395-430 (Dec 1997), 2T17
Simple continuum model for polarization reversals in ferroelectrics, Smart Mat Struct 7(4) 572-579 (Aug 1998), 2A18
Soliton-like structures in two spatial dimensions and their properties, Reports Math Phys **40**(2) 313-320 (Oct 1997), 2A19
Toom probabilistic cellular automata stationary states via simulations, Acta Phys Polonica B **B29**(6) 1599-1607 (Jun 1998), 2T20
Two theoretical elasticity micromechanics models, J Elast **50**(1) 15-25 (1998), 2A21
Results in the dynamical theory of porous elastic bodies, J Elast **50**(1) 3-14 (1998), 2A593
Realization of GHM models in viscoelasticity, J Intelligent Mat Syst Struct **8**(11) 986-993 (Nov 1997), 2A616
Extended smoluchowski models for interpreting relaxation phenomena in liquids, Acta Phys Polonica B **B29**(6) 1749-1789 (Jun 1998), 2A1053
Practical Inverse Analysis in Engineering (CRC Press, Boca Raton FL, 1997) 3R2
Analysis of phase-field alloys and transition layers, Arch Rational Mech Anal **142**(4) 293-329 (1998), 3A6
Computational modeling of steady crack extension in poroelastic media, Int J Solids Struct **35**(34-35) 4869-4885 (Dec 1998), 3A7
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Low-dimensional lattice groups for the continuum mechanics of phase transitions in crystals, Arch Rational Mech Anal **145**(1) 1-22 (1998), 5A9
Numerical modeling of granular-particulate systems by discrete element method, High Temp Mat Proc **17**(4) 275-288 (Oct-Dec 1998), 5A10
Conservation laws and conjugate solutions in the elasticity of simple materials and materials with couple stress, J Elast **51**(1) 1-22 (1998), 5A421
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Elastic modules of tungsten monocarbide crystals (Russian), Prikl Mekh (Appl Mech) **34**(8) 58-61 (1998), 6T514
Electroelastic equilibrium of transversally isotropic piezoceramic media with hollows, inclusions and cracks (Russian), Prikl Mekh (Appl Mech) **34**(10) 109-119 (1998), 6A708
Quasicontinuum models of fracture and plasticity, Eng Fracture Mech **61**(3-4) 427-444 (Sep-Nov 1998), 6A915
Model for cytoplasmic rheology consistent with magnetic twisting cytometry, Biorheol **35**(3) 193-209 (May-Jun 1998), 6A1123
Topics in Fluid Mechanics: Invited lectures given at the International Conference in memory of Professor Carlo Ferrari (Turin, Italy April 3-4, 1998), Meccanica **33**(5) 433-531 (Oct 1998), 6A1271
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Domain decomposition method for bodies with heterogeneous microstructure based on material regularization, Int J Solids Struct **36**(17) 2507-2525 (Jun 1999), 8A10
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Strain rates and material spins, J Elast **52**(1) 1-41 (1998), 8A15
Effect of irreversible phase change on shockwave propagation, J Mech Phys Solids **47**(4) 763-783 (Apr 1999), 8A204
Modeling high-velocity impact phenomena using unstructured dynamically-adaptive Eulerian meshes, J Mech Phys Solids **47**(4) 731-762 (Apr 1999), 8A230
Solids with non-spherical cavities: Simplified representations of cavity compliance tensors and the overall anisotropy, J Mech Phys Solids **47**(4) 877-898 (Apr 1999), 8A527
Endochronic description of plastic anisotropy in sheet metal, Int J Solids Struct **36**(18) 2735-2756 (Jun 1999), 8A553
Hydrogen transport near a blunting crack tip, J Mech Phys Solids **47**(4) 971-992 (Apr 1999), 8A753
Continuum modeling and numerical simulation of material damage at finite strains, Arch Comput Methods Eng **5**(4) 311-384 (1998), 8A763
Bone poroelasticity, J Biomech **32**(3) 217-238 (Mar 1999), 8A1567
Calculation of lattice relaxation in some substitutional alloys using a Green function, Acta Phys Polonica A **95**(3) 359-366 (Mar 1999), 9T7
Force as a flow variable, J Syst Control Eng **213**(I1) 77-81 (1999), 9T8
Investigations of high temperature phase transitions in (NH$_3$C$_2$H$_5$)$_2$CuCl$_4$ crystals, Acta Phys Polonica A **95**(3) 351-357 (Mar 1999), 9T9
In$_4$Se$_3$ crystal as a 3D imitative model of phenomena in 1D crystals, Acta Phys Polonica A **94**(2) 250-254 (Aug 1998), 9T10
Singularity detection in experimental data by means of wavelet transform, J Fluids Eng **121**(2) 418-421 (Jun 1999), 9A11
Fibril-network-reinforced biphasic model of cartilage in unconfined compression, J Biomech Eng **121**(3) 340-347 (Jun 1999), 9A1561
Application of Korteweg's capillary stress tensor in momentum balance for flashing flow, Arch Thermodyn **19**(1-2) 61-85 (1998), 10A16
Barrier crossing and transport activated by kangaroo fluctuations, Acta Phys Polonica B **B30**(1) 27-43 (Jan 1999), 10A17
Boundary conditions for a capillary fluid in contact with a wall, Arch Mech **50**(5) 907-916 (1998), 10A18
Bridging the dimensional gap: From kink in 1D to curved domain wall in 3D, Acta Phys Polonica B **B29**(12) 3725-3737 (Dec 1998), 10T19
Coercive limits for a subclass of monotone constitutive equations in the theory of inelastic material behavior of metals, Matematyka Stosowana **40** 41-81 (1997), 10A20
Computational aspects of 1D shape memory alloy modeling with phase diagrams, Comput Methods Appl Mech Eng **171**(3-4) 309-326 (Apr 1999), 10A21
Defective crystallography, Arch Mech **50**(3) 567-575 (1998), 10A22
Determining material true stress-strain curve from tensile specimens with rectangular cross-section, Int J Solids Struct **36**(23) 3497-3516 (Aug 1999), 10A23
Diffusion, Arch Mech **50**(3) 629-644 (1998), 10A24
Fractional calculus and stable probability distributions, Arch Mech **50**(3) 377-388 (1998), 10A25
Homogenization of heterogeneous polymers, Int J Solids Struct **36**(21) 3193-3214 (Jul 1999), 10A26
Kondo lattice model, Acta Phys Polonica B **B29**(12) 3752-3779 (Dec 1998), 10T27
Lagrangian field theory of plasticity and dislocation dynamics: Attempts towards unification with thermodynamics of irreversible processes, Arch Mech **50**(3) 345-365 (1998), 10A28
Luttinger-liquid phenomenology for high-T$_c$ superconductors, Acta Phys Polonica B **B29**(12) 3871-3884 (Dec 1998), 10T29
New elastic behavior arising from the unusual constitutive relation of nematic solids, J Mech Phys Solids **47**(6) 1355-1377 (Jun 1999), 10A30
Nonlinear dynamics of the alignment tensor in the presence of electric fields, Arch Mech **50**(3) 559-566 (1998), 10T31
Nonlocal theory of the high-strain-rate processes in structured media, Int J Solids Struct **36**(21) 3105-3129 (Jul 1999), 10A32
Thermomechanics of forces driving singular point sets, Arch Mech **50**(3) 509-519 (1998), 10A33
Use of the Hopkinson bar to validate constitutive relations at high rates of strain, J Mech Phys Solids **47**(5) 1187-1206 (May 1999), 10A34
Universal deformations for a class of compressible isotropic hyperelastic materials, J Elast **52**(2) 159-166 (1998), 10A506
Thermodynamic functions for ageing viscoelasticity: Integral form without internal variables, Int J Solids Struct **36**(26) 3993-4016 (Sep 1999), 10A538
Modeling the creep of open-cell polymer foams, J Mech Phys Solids **47**(7) 1437-1457 (Jul 1999), 10A547
Mechanism-based strain gradient plasticity - I: Theory, J Mech Phys Solids **47**(6) 1239-1263 (Jun 1999), 10A552
Theory of the elastic-viscoplastic Cosserat continuum, Arch Mech **50**(3) 577-597 (1998), 10A564
Endochronic analysis for rate-dependent elasto-plastic deformation, Int J Solids Struct **36**(21) 3215-3237 (Jul 1999), 10A585
Integration algorithm for modeling the elasto-viscoplastic response of polycrystalline materials, J Mech Phys Solids **47**(6) 1219-1238 (Jun 1999), 10A586
Constitutive relation and failure criterion for Ti6Al4V alloy at impact rates of strain, J Mech Phys Solids **47**(5) 1157-1185 (May 1999), 10A927
Biomathematical model for pressure-dependent lamina cribrosa behavior, J Biomech **32**(6) 579-584 (Jun 1999), 10A1623
Modeling of location- and time-dependent deformation of chondrocytes during cartilage loading, J Biomech **32**(6) 563-572 (Jun 1999), 10A1627
Simulation of Materials Processing: Theory, Methods and Applications (Balkema, Rotterdam, Netherlands, 1998) 11N23
Optimal distribution of material properties for an elastic continuum with structure-dependent body force, Int J Solids Struct **36**(30) 4587-4608 (Oct 1999), 11A2
Compatible Poisson structures of hydrodynamic type and the equations of associativity in 2D topological field theory, Reports Math Phys **43**(1-2) 247-256 (Feb-Apr 1999), 11T8
Constitutive model for ferroelectric polycrystals, J Mech Phys Solids **47**(8) 1663-1697 (Aug 1999), 11A9
Efficiency calculations for nonholonomic locomotion problems: An application to microswimming, Reports Math Phys **42**(1-2) 165-183 (Aug-Oct 1998), 11A10
Isothermic fatigue formulation using the continuum mechanics frame work, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 113-133 (1999), 11A11
Macroscopic behavior of locking materials with microstructure - Part I: Primal and dual elastic-locking potential - Relaxation, Bull Polish Acad Sci Tech Sci **46**(3) 265-276 (1998), 11A12
Thermomechanical modeling of polycrystalline SMAs under cyclic loading - Part I: Theoretical derivations, Int J Eng Sci **37**(9) 1089-1140 (Jul 1999), 11A13
Thermomechanical modeling of polycrystalline SMAs under cyclic loading - Part II: Material characterization and experimental results for a stable transformation cycle, Int J Eng Sci **37**(9) 1141-1173 (Jul 1999), 11A14
Thermomechanical modeling of polycrystalline SMAs under cyclic loading - Part III: Evolution of plastic strains and two-way shape memory effect, Int J Eng Sci **37**(9) 1175-1203 (Jul 1999), 11A15
Thermomechanical modeling of polycrystalline SMAs under cyclic loading - Part IV: Modeling of minor hysteresis loops, Int J Eng Sci **37**(9) 1205-1249 (Jul 1999), 11A16
Dynamic system characterization via eigenvalue orbits, J Guidance Control Dyn **22**(3) 447-454 (May-Jun 1999), 11A355
Incoherence at heterogeneous interfaces, J Mech Phys Solids **47**(8) 1609-1632 (Aug 1999), 11A464
New exact solutions of nonlinear reaction-diffusion equations, Reports Math Phys **41**(3) 333-349 (Jun 1998), 11A1458
Large earthquake occurrence affected by small stress changes, Bull Seismol Soc Am **89**(3) 822-828 (Jun 1999), 11A1532
Bulk and thin film microstructures in untwinned martensites, J Mech Phys Solids **47**(9) 1917-1939 (Sep 1999), 12A5
Constitutive framework of plastically deformed damaged continuum and a formulation using the endochronic concept, Int J Solids Struct **36**(33) 5057-5087 (Nov 1999), 12A6
Modeling of 2D elastic wave propagation with continuous cellular automata, Proc Estonian Acad Sci Eng **5**(2) 112-121 (Jun 1999), 12A7
Remarks on diffusion model of positron re-emission and/or positron surface trapping, Acta Phys Polonica A **95**(4) 515-520 (Apr 1999), 12T8

Simulation of the grain growth of the polycrystal containing another phase particles using the Monte Carlo method (Polish), Arch Naukio Mat **20**(1) 5-25 (1999), 12T9
Study on constitutive relations of copper using the acceleration waves and the theory of dynamic systems, Proc Estonian Acad Sci Eng **5**(2) 101-111 (Jun 1999), 12A10
Transformation of non-Markovian kinetic equation for TCF to Markovian type, Acta Phys Polonica B **B30**(4) 881-895 (Apr 1999), 12T11
Hybrid modeling for mechanical systems: Methodologies and applications, J Dyn Syst Meas Control **121**(2) 270-277 (Jun 1999), 12A362
Existence and uniqueness theorems for boundary value problems involving incrementally nonlinear models, Int J Solids Struct **36**(33) 5089-5099 (Nov 1999), 12A693
Self-consistent approach to coalescence of cavities in inhomogeneously voided ductile solids, J Mech Phys Solids **47**(9) 1823-1841 (Sep 1999), 12A811
Special issue: Intelligent material systems and structures, J Intelligent Mat Syst Struct **9**(7) 489-586 (Jul 1998), 12T916
Role of an effective isotropic tissue modulus in the elastic properties of cancellous bone, J Biomech **32**(7) 673-680 (Jul 1999), 12A1612
Fiber-reinforced composite model of the viscoelastic behavior of the brainstem in shear, J Biomech **32**(8) 865-870 (Aug 1999), 12A1634

102. FINITE ELEMENT METHODS

Finite Element Methods for Compressible and Incompressible Flow (von Karman Inst, Rhode-St-Genese, Belgium) 12N5

102A. General theory

Development of semi-analytical method of FEs as applied to the problems of statics and dynamics of the solids of revolution under non-axisymmetric loading, Prikl Mekh (Appl Mech) **34**(1) 31-38 (1998), 1A14
Improved time integration for pseudodynamic tests, Earthquake Eng Struct Dyn **27**(7) 711-730 (Jul 1998), 1A15
Dynamic analysis of the stochastic variational principle and stochastic FEM for structures with random parameters (Chinese), Chinese J Comput Mech **15**(3) 263-274 (Aug 1998), 2T22
Dynamic stochastic FEM based on dynamic constraint mode, Comput Methods Appl Mech Eng **161**(3-4) 245-255 (Aug 1998), 2A23
Finite element approximation for some quasilinear elliptic problems, J Comput Appl Math **96**(1) 13-25 (Sep 1998), 2A24
NBS contact detection algorithm for bodies of similar size, Int J Numer Methods Eng **43**(1) 131-149 (Sep 1998), 2A25
Numerical analysis of FE and Dirichlet-to-Neumann methods for nonlinear exterior transmission problems, Numer Functional Anal Optimization **19**(7-8) 705-735 (1998), 2A26
Semidiscrete FE scheme for the "good" Boussinesq system (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 181-202 (1998), 2A27
Triangles and tetrahedra in explicit dyuamic codes for solids, Int J Numer Methods Eng **43**(3) 565-583 (Oct 1998), 2A28
Bounds for eigenvalues and condition numbers in the p-version of the FEM, Math Comput **67**(224) 1423-1450 (Oct 1998), 3A16
Development of high-order manifold method, Int J Numer Methods Eng **43**(4) 685-712 (Oct 1998), 3A17
Development of mixed FEM for composite discontinuous analysis (Japanese), Proc JSCE **598**(I-44) 149-159 (Jul 1998), 3A18
Estimateur d'erreur a posteriori hierarchique: Application aux elements finis mixtes (French), Numer Math **80**(2) 159-179 (Aug 1998), 3A19
Finite volume element method for general self-adjoint elliptic problems, SIAM J Numer Anal **35**(5) 1762-1774 (Oct 1998), 3A20
Local regularizaiton operator for triangular and quadrilateral FEs, SIAM J Numer Anal **35**(5) 1893-1916 (Oct 1998), 3A21
New meshless local Petrov-Galerkin approach to nonlinear problems in computer modeling and simulation, Comput Model Simul in Eng **3**(3) 187-196 (Aug 1998), 3A22
Sharp error estimate for the numerical solution of multivariate Dirichlet problem, Stochastic Anal Appl **16**(3) 403-422 (1998), 3A23
Finite Elements: Theory, Fast Solvers, and Applications in Solid Mechanics (Cambridge UP, New York, 1997) 4R1
Finite Element Methods: Superconvergence, Postprocessing, and A Posteriori Estimates (Marcel Dekker, New York, 1997) 4N2
Computational Inelasticity (Springer-Verlag, New York, 1998) 4R6
Adaptive FEs for exterior domain problems, Numer Math **80**(4) 497-523 (Oct 1998), 4A11
Comparison between finite volumes schemes and FEs schemes (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 365-382 (1998), 4A12
Finite element approximation of a fourth order nonlinear degenerate parabolic equation, Numer Math **80**(4) 525-556 (Oct 1998), 4T13
Iterative method for dynamic condensation of FE models - Part I: Basic method, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 83-88 (Jun 1998), 4A14
A posteriori error estimation for standard FE analysis, Comput Methods Appl Mech Eng **163**(1-4) 141-157 (Sep 1998), 4A15
Stability, analyticity, and almost best approximation in maximum norm for parabolic FE equations, Commun Pure Appl Math **51**(11-12) 1349-1385 (Nov-Dec 1998), 4A16
Stabilization of pressure solutions in four-node quadrilateral elements, Struct Eng and Mech **6**(6) 711-725 (Sep 1998), 4A17
Algorithm for inverse isoparametric mapping in FEM (Chinese), Chinese J Comput Mech **15**(4) 437-441 (Nov 1998), 5T11
Hybrid stochastic FEs and generalized Monte Carlo simulation, J Appl Mech **65**(4) 1004-1009 (Dec 1998), 5A12
Introduction to programming the meshless element free Galerkin method, Arch Comput Methods Eng **5**(3) 207-241 (1998), 5A13
Multi-level minimal residual smoothing: A family of general purpose multigrid acceleration techniques, J Comput Appl Math **100**(1) 41-51 (Nov 1998), 5A14
Multiresolution representation in unstructured meshes, SIAM J Numer Anal **35**(6) 2128-2146 (Dec 1998), 5A15
A posteriori error estimation in least-squares stabilized FE schemes, Comput Methods Appl Mech Eng **166**(1-2) 99-114 (Nov 1998), 5A16
Stabilized Galerkin methods and layer-adapted grids for elliptic problems, Comput Methods Appl Mech Eng **166**(1-2) 165-182 (Nov 1998), 5A17
Variational multiscale method: A paradigm for computational mechanics, Comput Methods Appl Mech Eng **166**(1-2) 3-24 (Nov 1998), 5A18
Nonconvex Optimization in Mechanics: Algorithms, Heuristics and Engineering Applications by the FEM (Kluwer, Netherlands, 1998) 6R2
Convergence of nonconforming multigrid methods without full elliptic regularity, Math Comput **68**(225) 25-53 (Jan 1999), 6A12
Development of special FEs for free boundaries, Int J Solids Struct **36**(6) 899-917 (Feb 1999), 6A13
Nonconforming FEMs without numerical locking, Numer Math **81**(2) 163-186 (Dec 1998), 6A14
A posteriori error estimates for mixed FEM in elasticity, Numer Math **81**(2) 187-209 (Dec 1998), 6A15
Simple method of stiffness matrix formulation based on single element test, Struct Eng and Mech **7**(2) 203-216 (Feb 1999), 6A16
Class of equivalent enhanced assumed strain and hybrid stress FEs, Comput Mech **22**(6) 443-449 (Jan 1999), 7A8
Comparison between the volumetrically elastic and deviatorically rigid-plastic FEM and the penalty rigid-plastic FEM, Commun Numer Methods Eng **15**(1) 43-56 (Jan 1999), 7A9
High-accuracy approximations for eigenvalue problems by the Carey non-conforming FE, Commun Numer Methods Eng **15**(1) 19-31 (Jan 1999), 7A10
Mathematical aspects of the general hybrid-mixed FEMs and singular-value principle, Comput Mech **22**(6) 450-462 (Jan 1999), 7A11
Modelisation Numerique en Science et Genie des Materiaux (French) (Presses Polytech et Univ Romandes, Lausanne, 1998) 8R3
Adaptive FE approach to atomic-scale mechanics: The quasicontinuum method, J Mech Phys Solids **47**(3) 611-642 (Mar 1999), 8A16
Analysis of a class of superconvergence patch recovery techniques for linear and bilinear FEs, Numer Methods PDE **15**(2) 151-167 (Mar 1999), 8A17
Application of Zienkiewicz-Zhu's error estimate with superconvergent patch recovery to hierarchical p-refinement, Finite Elements Anal Des **31**(4) 273-280 (Feb 1999), 8A18
Approximation power of splines on triangulated quadrangulations, SIAM J Numer Anal **36**(1) 143-159 (Jan 1999), 8A19
Hybrid stress FE formulation based on additional internal displacements - Application of microscopic geometric perturbation and extension to linear dynamics, Finite Elements Anal Des **31**(4) 241-254 (Feb 1999), 8A40
Asymptotic a posteriori FE bounds for the outputs of noncoercive problems: The Helmholtz and Burgers equations, Comput Methods Appl Mech Eng **171**(1-2) 77-86 (Mar 1999), 9A12
Characteristic FEMs for nonlinear Sobolev equations, Appl Math Comput **102**(1) 51-62 (Jul 1999), 9A13
Computer modeling and simulation in engineering, Comput Model Simul in Eng **4**(1) 4-69 (Feb 1999), 9A14
Fictitious domain method for Dirichlet problems using mixed FEs, Appl Math Lett **12**(4) 117-120 (May 1999), 9A15
Finite element approximation of a semilinear elliptic problem with a singular nonlinearity, Numer Math **82**(1) 21-56 (Mar 1999), 9T16
Finite element discretizations of elliptic problems in the presence of arbitrarily small ellipticity: An error analysis, SIAM J Numer Anal **36**(2) 368-392 (Jan 1999), 9A17
Global uniformly convergent FEMs for singularly perturbed elliptic boundary value problems: Higher-order elements, Comput Methods Appl Mech Eng **171**(1-2) 1-23 (Mar 1999), 9A18
Iterative substructuring preconditioners for mortar element methods in 2D, SIAM J Numer Anal **36**(2) 551-580 (Jan 1999), 9A19
Overlapping nonmatching grid mortar element methods for elliptic problems, SIAM J Numer Anal **36**(2) 581-606 (Jan 1999), 9A20
Reliable and robust a posteriori error estimation for singularly perturbed reaction-diffusion problems, SIAM J Numer Anal **36**(2) 331-353 (Jan 1999), 9A21
Residual type-error estimator for the FEM (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 557-582 (1998), 9A22
Comparative analysis of hybrid-Trefftz stress and displacement elements, Arch Comput Methods Eng **6**(1) 35-59 (1999), 10A35
Convergence and domain decomposition algorithm for nonconforming and mixed methods for nonselfadjoint and indefinite problems, Comput Methods Appl Mech Eng **173**(1-2) 1-20 (Apr 1999), 10A36
Finite element discretization by minimization of elastic strain energy method, Finite Elements Anal Des **32**(2) 63-70 (Apr 1999), 10A37
Generation of quadrilateral meshes on free-form surfaces, Comput Struct **71**(5) 505-524 (Jun 1999), 10A38
Multidomain discretization method with local mesh refinement, IMA J Numer Anal **19**(2) 251-271 (Apr 1999), 10A39
Numerical applications with hybrid-Trefftz stress and displacement elements, Strojnicky Casopis **50**(2) 73-95 (1999), 10A40
Reproducing kernel hierarchical partition of unity - Part I: Formulation and theory, Int J Numer Methods Eng **45**(3) 251-288 (May 1999), 10A41
Two-level Schwarz method for unilateral variational inequalities, IMA J Numer Anal **19**(2) 273-290 (Apr 1999), 10A42
Variational principles for the FEMs and refined element methods (Chinese), J Dalian Univ Tech **39**(2) 150-157 (Mar 1999), 10A43
C^1 natural neighbor interpolant for partial differential equations, Numer Methods PDE **15**(4) 417-447 (Jul 1999), 11A17
Finite element method for semilinear parabolic equations with discontinuous coefficients, J Comput Math **17**(2) 191-198 (Mar 1999), 11A18
Generalization of infinite elements, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 63-83 (1999), 11A19
Mixed FEMs for a strongly nonlinear parabolic problem, J Comput Math **17**(2) 209-220 (Mar 1999), 11A20
Multilevel methods for mixed FEs in 3D, Numer Math **82**(2) 253-279 (Apr 1999), 11A21
Nonlinear transient response and second-order sensitivity using time FEM, AIAA J **37**(5) 613-622 (May 1999), 11A22
Nonstandard FE interpolation estimate, Numer Functional Anal Optimization **20**(3-4) 245-250 (1999), 11A23
Note on the FEM with singular basis functions, Int J Numer Methods Eng **45**(4) 491-495 (Jun 1999), 11A24
Remarks on the constant in the strengthened CBS inequality: Estimate for hierarchical FE discretizations of elasticity problems, Numer Methods PDE **15**(4) 469-487 (Jul 1999), 11A25
Schwarz chaotic relaxation method with inexact solvers on the subdomains, J Comput Math **17**(2) 125-132 (Mar 1999), 11A26
Finite Element Methods and Error Analysis Procedures: A Unified Approach (Academic Press, San Diego CA, 1999) 12R1
Adaptive FE-BE solution of boundary value problems, J Comput Appl Math **106**(2) 307-316 (Jun 1999), 12A12
Approximation theory for the p-version FEM and application to nonlinear elliptic PDE's, Numer Math **82**(3) 351-388 (May 1999), 12A13
Convergence of a multiscale FEM for elliptic problems with rapidly oscillating coefficients, Math Comput **68**(227) 913-943 (Jul 1999), 12A14
Finite volume method and application in combinations, J Comput Appl Math **106**(1) 21-53 (Jun 1999), 12A15
Finite volume method based on the Crouzeix-Raviart element for elliptic PDE's in 2D, Numer Math **82**(3) 409-432 (May 1999), 12T16
General mixed covolume framework for constructing conservative schemes for elliptic problems, Math Comput **68**(227) 991-1011 (Jul 1999), 12A17
High-linking algorithm for sign-changing solutions of semilinear elliptic equations, Nonlinear Anal **38**(2) 151-172 (Oct 1999), 12T18
P^1-P^1 FEM for a phase relaxation model - II: Adaptively refined meshes, SIAM J Numer Anal **36**(3) 974-999 (Mar-May 1999), 12A19
Reciprocity based FEM, Strojnicky Casopis **50**(3) 188-201 (1999), 12A20
Superconvergence of mixed FE approximations over quadrilaterals, SIAM J Numer Anal **36**(3) 772-787 (Mar-May 1999), 12A21
Superconvergent stress recovery technique for accurate boundary stress extraction, Int J Numer Methods Eng **45**(9) 1227-1242 (Jul 1999), 12A22

102C. Structural applications

Finite Element Applications: Linear, Non-Linear, Optimization and Fatigue and Fracture (ASME, New York, 1998) 1N3
Civil and structural engineering computing, Comput Struct **68**(1-3) 1-301 (Jul-Aug 1998), 1T16
Computational methods for optimal shakedown design of FE structures, Struct Optim **15**(3-4) 284-295 (Jun 1998), 1A17
Development of a robust element for second-order "nonlinear integrated design and analysis", J Construct Steel Res **47**(1-2) 169-190 (Jul 1998), 1A18
Development of an aluminum hull panel for high-speed craft, Marine Struct **11**(1-2) 47-71 (Jan-Feb 1998), 1A19
Finite element static analysis of stiffened shells, Appl Mech Eng **3**(1) 55-87 (1998), 1T20
Linear transient analysis of rectangular laminates using spline finite strips, Composite Struct **41**(1) 57-66 (Jan 1998), 1A21
Numerical modeling of adiabatic shear band formation in a twisting test, Eng Trans **45**(3-4) 419-431 (1997), 1A22
Numerical simulation of masonry panels, Eng Trans **45**(3-4) 375-394 (1997), 1A23
Modal analyses and experiments for engine crankshafts, J Sound Vib **214**(3) 413-430 (Jul 1998), 1A143
Experimental and FE modal analyses of planar mechanisms with 3D geometries, J Mech Des **120**(3) 401-403 (Sep 1998), 1A171
New FE for static and vibrational analysis of double-hull structures, J Dalian Univ Tech **38**(4) 419-425 (Jul 1998), 1A182
Modeling interply debonding in laminated architectural glass subject to low velocity impact, Struct Eng and Mech **6**(5) 485-496 (Jul 1998), 1A641
Transient dynamics of laminated beams: An evaluation with a higher-order refined theory, Composite Struct **41**(1) 1-11 (Jan 1998), 1A643
Effects of stacking sequence on the impact resistance in composite laminates - Part 1: Parametric study, Composite Struct **41**(1) 67-77 (Jan 1998), 1A645
Formulation and numerics for the statics and dynamics of shells at finite deformations (German), Bauingenieur **73**(6) 283-291 (Jun 1998), 1A674
Nonlinear-progressive damage processes of structures (German), Bauingenieur **73**(6) 267-273 (Jun 1998), 1A676
International Conference on thin-walled structures: Plates and shells, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **30**(1-4) 3-250 (Jan-Apr 1998), 1T682
Load bearing capacity of longitudinal stiffened shells under axial loading: Are our standards too conservative? (German), Bauingenieur **73**(6) 292-298 (Jun 1998), 1A695
Local and post-local buckling of concrete filled steel welded box columns, J Construct Steel Res **47**(1-2) 47-72 (Jul 1998), 1A706
Distortional buckling of elastically restrained cantilevers, J Construct Steel Res **47**(1-2) 3-18 (Jul 1998), 1A710
Finite element analysis for buckling of pressure vessels with ellipsoidal head, Int J Pressure Vessels Piping **75**(2) 115-120 (Feb 1998), 1A723
Automated optimization of transverse frame layouts for ships by elastic-plastic FE analysis, Struct Optim **15**(3-4) 187-200 (Jun 1998), 1A942
Motion control and shape optimization of a suitlike flexible arm, Struct Optim **15**(3-4) 163-171 (Jun 1998), 1A952
Shape optimization using Weibull statistics of brittle failure, Struct Optim **15**(3-4) 208-214 (Jun 1998), 1A965
Static condensation in modal-based structural optimization, Struct Optim **15**(3-4) 275-283 (Jun 1998), 1A966
Two dimensional shape optimization with static and dynamic constraints, Struct Optim **15**(3-4) 201-207 (Jun 1998), 1A969
Dynamic analysis of the pedestrian bridge over the Allmandring in Stuttgart (German), Bauingenieur **73**(6) 274-282 (Jun 1998), 1A993
International Conference on thin-walled structures: Cold-formed steel and aluminium structures, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **29**(1-4) 3-287 (Sep-Dec 1997), 1T998
Configurations of double-layer space trusses, Struct Eng and Mech **6**(5) 543-554 (Jul 1998), 1A1003
Bearing stone bell and the cupola of the Dresden church of our lady (German), Bauingenieur **73**(6) 259-266 (Jun 1998), 1A1012

Numerical analysis of cylinders containing circular offset cross-bores, Int J Pressure Vessels Piping **75**(3) 191-196 (Mar 1998), 1A1018

Criteria for the design of manipulator arms for a high stiffness-to-weight ratio, J Manuf Syst **17**(3) 209-220 (1998), 1A1046

Nonlinear Finite Element Analysis of Solids and Structures, Volume 2: Advanced Topics (Wiley, UK, 1997) 2R2

D-adaptive model for the elasticity problem, Comput Assisted Mech Eng Sci **5**(1) 65-74 (1998), 2A29

Direct block sparse solution of the mixed FE equations, Comput Assisted Mech Eng Sci **5**(1) 21-30 (1998), 2A30

Efficient FE modeling of composite beams and plates using higher-order theories and an accurate composite beam element, Composite Struct **41**(2) 159-165 (Feb 1998), 2A31

Finite element modeling and optimization for controlling the residual thermal stresses of laminated composite tubes, Composite Struct **41**(2) 151-157 (Feb 1998), 2A32

Hierarchic FEs for thin plates and shells, Comput Assisted Mech Eng Sci **5**(2) 151-160 (1998), 2A33

Numerical results on the locking for cylindrical shells, Comput Assisted Mech Eng Sci **5**(1) 31-44 (1998), 2A34

Perspective on FEs for shell analysis, Finite Elements Anal Des **30**(3) 175-186 (Aug 1998), 2A35

Treatment of shell normals in FE analysis, Finite Elements Anal Des **30**(3) 235-242 (Aug 1998), 2A66

Characteristics of enhanced active constrained layer damping treatments with edge elements - Part 1: FE model development and validation, J Vib Acoust **120**(4) 886-893 (Oct 1998), 2A168

Characteristics of enhanced active constrained layer damping treatments with edge elements - Part 2: System analysis, J Vib Acoust **120**(4) 894-900 (Oct 1998), 2A169

Finite element modeling of a rotor shaft rolling bearings system with consideration of bearing nonlinearities, J Vib and Control **4**(5) 541-602 (Sep 1998), 2A243

Effect of embedded optical fibers on the fatigue behavior of composite plates, Composite Struct **41**(2) 113-120 (Feb 1998), 2A671

Effectiveness of optimal design with respect to computational models for laminated composite structures weakened by holes, Struct Optim **16**(1) 58-67 (Aug 1998), 2A927

Maximization of the crushing energy absorption of tubes, Struct Optim **16**(1) 37-46 (Aug 1998), 2A929

Numerical instabilities in topology optimization: A survey on procedures dealing with checkerboards, mesh-dependencies and local minima, Struct Optim **16**(1) 68-75 (Aug 1998), 2A934

Finite element analysis and control simulation of laminate shell containing piezoelectric patches, Chinese J Comput Mech **15**(3) 329-337 (Aug 1998), 2T941

Fiber finite beam element with section shear modeling for seismic analysis of RC structures, J Earthquake Eng **2**(3) 443-473 (Jul 1998), 2A954

Shear assessment of concrete beam-and-slab bridges, Proc Inst Civil Eng Struct Build **128**(3) 264-273 (Aug 1998), 2A956

Metal-to-metal full face taper-hub flanges: FEM evaluation and preliminary plastic analytical results, Proc Inst Mech Eng E **212**(E2) 57-69 (1998), 2A1000

Linear and Nonlinear Finite Element Analysis in Engineering Practice (Algor Inc, Pittsburgh, PA, 1997) 3R1

Advances in Computational Mechanics with High Performance Computing (Civil-Comp, Edinburgh, UK, 1998) 3N3

Advances in Engineering Computational Technology (Civil-Comp, Edinburgh, UK, 1998) 3N5

Advances in Finite Element Procedures and Technology (Civil-Comp, Edinburgh, UK, 1998) 3N6

Computer modeling of the corner compartment fire test on the large-scale Cardington test frame, J Construct Steel Res **48**(1) 27-45 (Oct 1998), 3A24

Elastoplastic crack analysis of thick-walled cylinders using symmetric-iterative scheme of coupled BE and FE discretizations, Int J Pressure Vessels Piping **75**(6) 467-472 (May 1998), 3A25

Finite element study of keyed backing ring design for floating head, Int J Pressure Vessels Piping **75**(6) 521-526 (May 1998), 3A26

Nonlinear analysis of fiber-reinforced plastic poles, Struct Eng and Mech **6**(7) 785-800 (Oct 1998), 3A27

Numerical study of large deformations of low-density elastomeric open-cell foams, Mech Mat **30**(2) 125-140 (Oct 1998), 3A28

Updating large FE models in structural dynamics, AIAA J **36**(10) 1861-1868 (Oct 1998), 3A56

Shape optimization of unconstrained viscoelastic layers using continuum FEs, J Sound Vib **216**(1) 29-52 (Sep 1998), 3A130

Transient response analysis of a very large floating structure by FEM, Proc JSCE **598**(I-44) 1-9 (Jul 1998), 3A267

Micromechanical modeling of stress distribution in undulated composites under axial loading, Mech Mat **30**(2) 83-90 (Oct 1998), 3A571

Australian developments in the analysis of composite structures with material and geometric nonlinearities, Composite Struct **41**(3-4) 197-214 (Mar-Apr 1998), 3A575

Analysis of composite plates using various plate theories - Part 2: FE model and numerical results, Struct Eng and Mech **6**(7) 727-746 (Oct 1998), 3A615

Approximate solutions to the orthotropic pinched cylinder problem, Composite Struct **42**(1) 73-91 (May 1998), 3A616

Flugge shell theory and solution for orthotropic cylindrical shells under pinching loads, Composite Struct **42**(1) 53-72 (May 1998), 3A619

New lock-free, material FE for flexure of moderately thick rectangular composite plates, Comput Struct **69**(5) 609-623 (Dec 1998), 3A633

Rib separation in postbuckling stiffened shear panels, Composite Struct **41**(3-4) 339-352 (Mar-Apr 1998), 3A637

Study on the compressive strength of laminated composite with through-the-width delamination, Composite Struct **41**(3-4) 229-241 (Mar-Apr 1998), 3A770

Nonlinear analysis of bonded composite patch repair of cracked aluminum panels, Composite Struct **41**(3-4) 303-313 (Mar-Apr 1998), 3A820

Two-term parameter technique to calculate energy release rate of composite lamiantes, Composite Struct **42**(2) 169-174 (Jun 1998), 3A825

Modeling of contraction joint and shear sliding effects on earthquake response of arch dams, Earthquake Eng Struct Dyn **27**(10) 1013-1029 (Oct 1998), 3A913

Finite element analysis for wave response of large floating structures (Japanese), Proc JSCE **598**(I-44) 161-170 (Jul 1998), 3A923

Design of a lightweight automotive brake disc using FE and Taguchi techniques, Proc Inst Mech Eng D **212**(D4) 245-254 (1998), 3A959

Adaptive multi-point quadrature for elastic-plastic shell elements, Finite Elements Anal Des **30**(4) 253-278 (Oct 1998), 4A18

Design and simulation of a sequential kinking guardrail terminal, Int J Impact Eng **21**(9) 761-772 (Oct 1998), 4A19

Nonlinear effects of vibration of a continuous transverse cracked slender shaft, J Sound Vib **217**(2) 321-333 (Oct 1998), 4A144

Tension-induced conveyor belts: A FE free vibration study, J Vib and Control **4**(6) 673-696 (Nov 1998), 4A169

Finite element analysis of whirl speeds for rotor-bearing systems with internal damping, Mech Syst Signal Processing **12**(5) 599-610 (Sep 1998), 4T174

Computational procedure for nonlinear dynamic analysis of vehicles, Vehicle Syst Dyn **30**(1) 37-54 (Jul 1998), 4T186

Sound insertion loss of stiffened enclosure plates using the FEM and the classical approach, J Sound Vib **217**(2) 239-260 (Oct 1998), 4A324

Theoretical analysis for the quasi-static axial crushing of top-hat and double-hat thin-walled sections, Int J Mech Sci **41**(2) 209-233 (Feb 1999), 4A550

Transient and steady-state deformation at notch root under cyclic loading, Mech Mat **30**(3) 229-241 (Nov 1998), 4A571

Partial hybrid FEs for composite laminates, Finite Elements Anal Des **30**(4) 365-382 (Oct 1998), 4A616

Inelastic failure of high strength steel I-shaped beams, J Construct Steel Res **49**(1) 1-24 (Jan 1999), 4A627

Aspects of composite circular sewer linings under installation conditions, Eng Struct **21**(1) 5-15 (Jan 1999), 4A675

Gradient-enhanced damage modeling of concrete fracture, Mech Cohesive-Frictional Mat **3**(4) 323-342 (Oct 1998), 4A831

Linearization of the microplane model, Mech Cohesive-Frictional Mat **3**(4) 343-364 (Oct 1998), 4A847

Experiences during development of a dynamic crash response automobile model, Finite Elements Anal Des **30**(4) 279-295 (Oct 1998), 4A854

Advances in understanding shear performance of concrete structures, Progress Struct Eng Mat **1**(4) 360-369 (Jul 1998), 4A895

Upstand FE analysis of slab bridges, Comput Struct **69**(6) 671-683 (Dec 1998), 4A914

ED-Elas2D (CIMNE, Barcelona, 1998) 5N1

Ed-Tridim (CIMNE, Barcelona) 5N2

Analysis for the plate with the theory of different extension-compression elastic modulis (Chinese), Chinese J Comput Mech **15**(4) 448-455 (Nov 1998), 5T19

Analysis of membrane locking in hp FEM for a cylindrical shell, Z Angew Math Mech **78**(10) 663-686 (1998), 5A20

Finite element analysis model for the behavior of cold-formed steel members, Thin-Walled Struct **31**(4) 305-324 (Aug 1998), 5A21

Finite element implementation of the microplane theory for simulating a rigid concrete pavement-vehicle interaction, Mech Struct Machines **26**(4) 377-400 (1998), 5A22

Finite element method of dynamical analysis of mechanisms with flexible links (Chinese), J Beijing IT **18**(4) 406-410 (Aug 1998), 5A23

Finite element static and dynamic analyses of folded plates, Eng Struct **21**(3) 277-287 (Mar 1999), 5A24

Flexibility-based FE analysis for structures with random material properties, J Appl Mech **65**(4) 908-913 (Dec 1998), 5A25

Multilevel hierarchical preconditioner for thin elastic solids, Int J Numer Methods Eng **43**(8) 1383-1400 (Dec 1998), 5A26

Numerical analysis of damping structures with active-passive constrained layer (Chinese), Chinese J Comput Mech **15**(4) 423-428 (Nov 1998), 5T27

Structural repair and strengthening of the steel structures of ship unloaders, Proc Inst Civil Eng Struct Build **128**(4) 368-375 (Nov 1998), 5A28

Transient analysis of thin-walled structures using macro spline FEs, Eng Struct **21**(3) 255-266 (Mar 1999), 5A29

Asymmetric, speed dependent tensioning of circular rotating disks, J Sound Vib **218**(1) 65-80 (Nov 1998), 5A130

Finite element analysis of shear deformation in laminated anisotropic shells of revolution, J Sound Vib **218**(1) 164-176 (Nov 1998), 5T136

Stability and asymmetric vibrations of pressurized compressible hyperelastic cylindrical shells, Int J Non-Linear Mech **34**(3) 391-404 (May 1999), 5A138

Vibrations of cylindrical pipes and open shells, J Sound Vib **218**(3) 361-387 (Dec 1998), 5A139

Evaluation of dynamic stresses in pipelines using limited vibration measurements and FEA in the time domain, J Pressure Vessel Tech **121**(1) 37-41 (Feb 1999), 5A175

Curvature effect on stress concentrations around circular hole in opened shallow cylindrical shell under external pressure, Int J Pressure Vessels Piping **75**(10) 749-763 (Aug 1998), 5A429

Stress concentration and local behavior of prestressed composite laminates-sandwich plates with overhangs in cylindrical bending, Composite Struct **42**(3) 203-215 (Jul 1998), 5A527

Recent developments and future trends in thin-walled structures, Thin-Walled Struct **32**(1-3) 3-230 (Sep-Nov 1998), 5A538

Inelastic stability of conical tanks, Thin-Walled Struct **31**(4) 343-359 (Aug 1998), 5A557

Simplified prediction of creep buckling of cylinders under external pressure - Part 1: FE validation, Eur J Mech A **17**(6) 1021-1036 (Nov-Dec 1998), 5A569

Finite element and reliability: A method for compound variables-application on a cracked heating system, Nucl Eng Des **185**(2-3) 185-202 (Oct 1998), 5A777

Structural redesign by large admissible perturbations with static mode compensation, J Offshore Mech Arctic Eng **121**(1) 39-46 (Feb 1999), 5A800

Limit analysis based on elastic compensation method of branch pipe tee connection under internal pressure and out-of-plane moment loading, Int J Pressure Vessels Piping **75**(11) 819-825 (Sep 1998), 5A815

Three-dimensional model for vulnerability analysis of slender medieval masonry towers, J Earthquake Eng **2**(4) 487-512 (Oct 1998), 5A1489

Analysis of deep beams and shear walls by finite strip method with C^0 continuous displacement functions, Thin-Walled Struct **32**(4) 289-303 (Dec 1998), 6A17

Estimation of temperature in rubber-like materials using nonlinear FE analysis based on strain history, Finite Elements Anal Des **31**(2) 85-98 (Dec 1998), 6A18

Finite element simulation of the test procedure of stiffened panels, Marine Struct **11**(3) 75-99 (Apr 1998), 6A19

Optimal bead orientation of 3D shell-plate structures, Finite Elements Anal Des **31**(1) 55-71 (Nov 1998), 6A20

Vibration of plates and shells using FEs: 1996-1997, Finite Elements Anal Des **31**(3) 223-230 (Jan 1999), 6A21

Nonlinear vibration analysis of a traveling string with time-dependent length by new hybrid Laplace transform-FEM, J Sound Vib **219**(2) 323-337 (Jan 1999), 6A153

Vibration analysis of a nearly axisymmetric shell structure using a new finite ring element, J Sound Vib **219**(1) 35-50 (Jan 1999), 6A171

Nonlinear vibration of thin plates with initial stress by spline finite strip method, Thin-Walled Struct **32**(4) 275-287 (Dec 1998), 6A173

Dynamic FE model improvement of a PCB structure, J Vib and Control **5**(1) 57-74 (Jan 1999), 6A209

Damage index for the characterization of confined masonry subjected to lateral cyclical loads (French), Mat Struct **31**(214) 692-698 (Dec 1998), 6A571

Elastoplastic stress analysis in stainless steel fiber reinforced aluminum metal matrix laminated plates loaded transversely, Composite Struct **43**(2) 147-154 (Oct 1998), 6A618

Finite elements method for the dynamic analysis of tapered composite poles, Composite Struct **43**(1) 25-34 (Sep 1998), 6A620

Interactions between numerical and experimental approaches in composite structure dynamics, Composite Struct **43**(2) 127-135 (Oct 1998), 6A622

International Workshop on Experimental Techniques in the Analysis of Composite Structures, Composite Struct **42**(4) 299-382 (Aug 1998), 6A623

Modal parameter evaluation of degraded adhesively bonded composite beams, Composite Struct **43**(1) 79-91 (Sep 1998), 6A626

Variable complexity design of composite fuselage frames by response surface techniques, Thin-Walled Struct **32**(4) 235-261 (Dec 1998), 6A629

Use of ANSYS to calculate the behavior of sandwich structures, Composites Sci Tech **58**(12) 1899-1905 (Dec 1998), 6A641

One variant of FE approach to solution of plane problems of linear of composites elasticity (Russian), Prikl Mekh (Appl Mech) **34**(10) 73-83 (1998), 6T654

Plates with holes under lateral load pressure, Eng Failure Anal **5**(4) 299-315 (Dec 1998), 6A655

Numerical investigation of tripping, Marine Struct **11**(4-5) 159-183 (May-Jun 1998), 6A676

Effects of non-uniform particle distributions on damage evolution in pre-cracked, particulate composite specimens, Polymers and Polymer Composites **6**(6) 387-397 (1998), 6A925

Crack modeling in FE analysis of circular tubular joints, Eng Fracture Mech **61**(5-6) 537-553 (Nov-Dec 1998), 6A962

Thermal model for cracked structures repaired with composite patches, AIAA J **36**(12) 2229-2235 (Dec 1998), 6A974

Solution of limit load and reference stress of 3D structures under multi-loading systems, Eng Struct **21**(6) 530-537 (Jun 1999), 6A1008

Optimal configuration design of structures using the binary enumeration technique, Finite Elements Anal Des **31**(1) 15-32 (Nov 1998), 6A1016

Optimal design of a piezoelectric smart structure for noise control, Smart Mat Struct **7**(6) 801-808 (Dec 1998), 6A1027

Shake table tests on prestressed concrete frames, Mat Struct **31**(214) 676-682 (Dec 1998), 6A1043

Finite element comparative study of ship structural detail, Marine Struct **11**(4-5) 127-139 (May-Jun 1998), 6A1064

Analytical and FE modeling of riveted lap joints in aircraft structure, AIAA J **37**(1) 93-99 (Jan 1999), 7A12

Finite Element analysis of an elastic beam structure subjected to a moving distributed mass train, Mech Syst Signal Processing **13**(1) 31-51 (Jan 1999), 7A13

Hybrid FE formulations for elastodynamic analysis in the frequency domain, Int J Solids Struct **36**(13) 1883-1923 (May 1999), 7A14

New function transform technique for the solution of FEM dynamic equations, Comput Struct **70**(3) 345-355 (Feb 1999), 7A15

Nonlinear FE analysis of concrete filled steel tubular compression-bending-torsion members under the initial stress (Chinese), Chinese J Comput Mech **16**(1) 52-57 (Feb 1999), 7T16

Numerical solutions of mixed FEs for thin axisymmetric cylindrical shell with free edge boundary conditions (Chinese), Chinese J Comput Mech **16**(1) 63-72 (Feb 1999), 7T17

Structural behavior of composite panels manufactured from expanded polystyrene and steel, Comput Model Simul in Eng **3**(4) 281-286 (Nov 1998), 7A18

Ultimate load test and analysis of a retrofitted model steel dome, Int J Space Struct **13**(2) 53-63 (1998), 7A19

Approach for evaluating power transfer coefficient for spot-welded joints in an energy FE formulation, J Sound Vib **220**(1) 135-154 (Feb 1999), 7A38

Consistent co-rotational FE formulation for geometrically nonlinear dynamic analysis of 3D beams, Comput Methods Appl Mech Eng **169**(1-2) 1-18 (Jan 1999), 7A132

Impact damage in composite aircraft structures: Experimental testing and numerical simulation, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 245-259 (1998), 7A224

Dynamic analysis of an annular cavity: Criteria for the selection of the modal basis, J Sound Vib **219**(4) 639-667 (Jan 1999), 7A267

Three-dimensional stress analysis of bolted single-lap composite joints, Composite Struct **43**(3) 195-216 (Nov 1998), 7A539

Composite beam behavior in braced frames, J Construct Steel Res **49**(3) 271-289 (Mar 1999), 7A555

Laminated composite plates with integrated sensors and actuators, Eng Struct **21**(7) 568-593 (Jul 1999), 7A573

Behavior of girder webs subjected to patch loading, J Construct Steel Res **50**(1) 49-69 (Apr 1999), 7A591

Mechanical interaction between steel and coating in stressed and strained exposed locations, Marine Struct **11**(6) 231-250 (Jul 1998), 7A701

Finite element investigation of the effect of crack tip constraint on hole growth under mode I and mixed mode loading, Int J Solids Struct **36**(10) 1427-1447 (Apr 1999), 7A756

New special FEs for modeling reinforcement and steel-concrete interface, J Eng Appl Sci **45**(5) 677-691 (Oct 1998), 7A847

Prediction of degree of bending in tubular X and DT joints, Int J Fatigue **21**(2) 147-161 (Feb 1999), 7A866

Advanced Applied Finite Element Methods (Horwood Publ, Chichester UK, 1998) 8R1

Adaptive FE analysis of structures under transient dynamic loading using modal superposition, Finite Elements Anal Des **31**(4) 255-272 (Feb 1999), 8A20

Finite element implementation of a steel-concrete bond law for nonlinear analysis of beam-column joints subjected to earthquake type loading, Struct Eng and Mech **7**(1) 35-52 (Jan 1999), 8A21

Parametric FE study of cracked plates and shells, Thin-Walled Struct **33**(3) 211-229 (Mar 1999), 8A22

Steel girders subjected to concentrated loading - Validation of numerical simulations, J Construct Steel Res **50**(2) 199-216 (May 1999), 8A23

Ultimate strength estimation of ships' transverse frames by incremental elastic-plastic FE analysis, Marine Struct **11**(7-8) 291-317 (Aug-Sep 1998), 8A24

Deteriorated geometrical stiffness for higher order FEs with application to panel flutter, Nonlinear Dyn **18**(1) 89-103 (Jan 1999), 8A38

Development of an automotive joint model using an analytically based formulation, J Sound Vib **220**(4) 625-640 (Mar 1999), 8A184

Two-dimensional axisymmetric numerical analysis of a bar-bar tensile impact apparatus by elastoplastic FEM, J Sound Vib **220**(5) 787-806 (Mar 1999), 8A228

Effect of thickness on large-deflection behavior of shells, AIAA J **37**(3) 403-405 (Mar 1999), 8T628

Experimental, numerical and analytical results for bending and buckling of rectangular orthotropic plates, Composite Struct **43**(4) 289-299 (Dec 1998), 8A634

Response of composite shells with cutouts to internal pressure and compression loads, AIAA J **37**(2) 232-237 (Feb 1999), 8A635

Stabilized FE formulations for shells in a bending dominated state, SIAM J Numer Anal **36**(1) 32-73 (Jan 1999), 8A647

Bracing of thin walled steel box columns during pumping of wet concrete in tall buildings, Thin-Walled Struct **33**(2) 127-154 (Feb 1999), 8A651

Elastic distortional buckling of tee-section cantilevers, Thin-Walled Struct **33**(1) 3-17 (Jan 1999), 8A652

Buckling analysis of anisotropic variable-curvature panels and shells, Composite Struct **43**(4) 321-329 (Dec 1998), 8A657

Postbuckling analysis and imperfection sensitivity of general shells by the FEM, Int J Solids Struct **36**(18) 2641-2681 (Jun 1999), 8A662

Buckling and postbuckling behavior of composite cross-ply laminates with multiple delaminations, Composite Struct **43**(4) 257-274 (Dec 1998), 8A664

Buckling of stiffened steel plates - A parametric study, J Construct Steel Res **50**(2) 151-175 (May 1999), 8A666

Method for modeling the local and global buckling of delaminated composite plates, Composite Struct **44**(1) 43-53 (Jan 1999), 8A667

Finite element analysis of the piezoelectric vibrations of quartz plate resonators with higher-order plate theory, Int J Solids Struct **36**(15) 2303-2319 (May 1999), 8A674

Elastoplastic FE analysis of 3D fatigue crack growth in aluminum shafts subjected to axial loading, Int J Solids Struct **36**(15) 2231-2258 (May 1999), 8A741

Composite repairs to cracks in thick metallic components, Composite Struct **44**(1) 17-29 (Jan 1999), 8A782

Numerical method for lower bound limit analysis of 3D structures with multi-loading systems, Int J Pressure Vessels Piping **76**(2) 105-112 (Feb 1999), 8A827

Sensitivity and optimization procedures for truss structures under large displacement, Struct Eng and Mech **7**(1) 111-126 (Jan 1999), 8A841

Seismic vulnerability evaluation of a 32-story reinforced concrete building, Struct Eng and Mech **7**(1) 1-18 (Jan 1999), 8A865

Experimental studies of the behavior of unprotected steel frames in fire, J Construct Steel Res **50**(2) 137-150 (May 1999), 8A870

Structural design of closely packed horseshoe-shaped sewer linings during installation, Thin-Walled Struct **33**(1) 19-48 (Jan 1999), 8A873

Dynamic analysis of trusses including the effect of local modes, Struct Eng and Mech **7**(1) 81-94 (Jan 1999), 8A877

Seismic strengthening and repair of Byzantine churches, J Earthquake Eng **3**(2) 199-235 (Apr 1999), 8A1506

Contact analysis of a posterior cervical spine plate using a 3D canine FEM, J Biomech Eng **121**(2) 206-214 (Apr 1999), 8A1609

Computer modeling and simulation in engineering, Comput Model Simul in Eng **4**(1) 4-69 (Feb 1999), 9A14

Analytical study on the cracking transition of concrete shear key, Mat Struct **32**(217) 196-202 (Apr 1999), 9A23

Computation of interface stresses by FEs for sandwich materials, Composite Struct **44**(4) 289-295 (Apr 1999), 9A24

Correlation verification technique for responses of FE model of structure (Chinese), J Vib Eng **12**(1) 85-90 (Mar 1999), 9T25

Exact FE for a beam on a two-parameter elastic foundation: A revisit, Struct Eng and Mech **7**(3) 259-276 (Mar 1999), 9A26

Inverse FE vibration problems, J Sound Vib **221**(2) 309-324 (Mar 1999), 9A27

Mixed FE formulation and optimal design of thin composite laminates, Control and Cybernetics **27**(2) 163-176 (1998), 9A28

New breakaway mailbox designed using nonlinear FE analysis, Finite Elements Anal Des **32**(1) 37-49 (Mar 1999), 9A29

Optimal hole profile in a finite plate under uniaxial stress by FE simulation of Durelli's photoelastic stress minimization method, Finite Elements Anal Des **32**(1) 1-20 (Mar 1999), 9A30

Shear deformable user FE for MARC to model composites with taper, Composite Struct **44**(2-3) 137-143 (Feb-Mar 1999), 9A31

Effect of thickness on the large elastic deformation behavior of laminated shells, Composite Struct **44**(2-3) 117-128 (Feb-Mar 1999), 9A666

Dynamic analysis for laminated composite beams, Composite Struct **44**(2-3) 81-87 (Feb-Mar 1999), 9A685

Continuum based 3D shell element for laminated structures, Comput Struct **71**(1) 43-62 (Apr 1999), 9A705

Thermal buckling analysis of thick anisotropic composite plates by finite strip method, Struct Eng and Mech **7**(5) 473-484 (May 1999), 9A719

Stress concentrations in multi-planar welded CHS XX-connections, J Construct Steel Res **50**(3) 259-282 (Jun 1999), 9A819

Optimum design of cable-stayed bridges, Struct Eng and Mech **7**(3) 241-257 (Mar 1999), 9A966

Simultaneously evolutionary optimization of several natural frequencies of a 2D structure, Struct Eng and Mech **7**(5) 447-456 (May 1999), 9A970

Damage assessment of reinforced concrete framed structures by cracked beam element (Chinese), J Vib Eng **12**(1) 115-119 (Mar 1999), 9A986

Large thermal deflection analysis of composite plates using finite strip method, Adv in Struct Eng **2**(2) 137-146 (Feb 1999), 9A995

Theoretical model for predicting the strength of ring-stiffened tubular T-joints in offshore structures, Proc Inst Civil Eng Struct Build **134**(1) 19-31 (Feb 1999), 9A1013

Global rupture of a nuclear reactor lower head with elevated temperature due to severe accidents, Nucl Eng Des **187**(3) 261-276 (Mar 1999), 9A1517

Automatic generation and modification of parts FE meshes in diesel engine (Chinese), J Huazhong Univ Sci Tech **27**(2) 28-30 (Feb 1999), 10A44

Finite element model for crack arrestor design in gas pipelines, Fatigue Fracture Eng Mat Struct **22**(1) 59-66 (1999), 10A45

Rational FEM for elastic bending of Reissner plates, Appl Math Mech **20**(2) 193-199 (Feb 1999), 10A46

Finite element based modal method for determination of plate stiffnesses considering uncertainties, J Composite Mat **33**(8) 695-711 (1999), 10A182

Prediction of stress distributions along the intersection of tubular Y and T-joints, Int J Fatigue **21**(4) 361-381 (Apr 1999), 10A513

Ovalization analysis of fiber-reinforced plastic poles, Composite Struct **45**(1) 7-12 (May 1999), 10A631

Fracture mechanics using a 3D composite element, Composite Struct **45**(1) 29-39 (May 1999), 10A652

Natural frequencies of a multilayer composite plate with shape memory alloy wires, Finite Elements Anal Des **32**(2) 71-83 (Apr 1999), 10A655

Interface beam element for the analysis of soil-structure interactions and pipelines, Int J Offshore Polar Eng **9**(1) 22-29 (Mar 1999), 10A670

C^1 FE including transverse shear and torsion warping for rectangular sandwich beams, Int J Numer Methods Eng **45**(1) 47-75 (May 1999), 10A675

Bracing requirements of inelastic columns, J Construct Steel Res **51**(1) 1-19 (Jul 1999), 10A709

Elastic buckling and postbuckling behavior of widely-stiffened conical shells under axial compression, Eng Struct **21**(9) 845-855 (Sep 1999), 10A731

Geometrical nonlinear analysis of tensegrity systems, Eng Struct **21**(9) 864-876 (Sep 1999), 10A985

Structural design of process decks for floating production, storage, and offloading units, Marine Struct **11**(10) 403-412 (Dec 1998), 10A1014

Ultimate longitudinal strength of ship hull girder: historical review and state of the art, Int J Offshore Polar Eng **9**(1) 1-9 (Mar 1999), 10A1021

Nonlinear seismic response of steel structures with semi-rigid and composite connections, J Construct Steel Res **51**(1) 37-59 (Jul 1999), 10A1555

Finite Element Analysis: Theory and Application with ANSYS (Prentice Hall, Upper Saddle River, NJ, 1999) 11R2

Application of equivalent elastic methods in 3D FE structural analysis, J Pressure Vessel Tech **121**(3) 283-290 (Aug 1999), 11A27

Behavior of coupled shear wall and shear core in lateral loading, J Struct Eng (India) **25**(3) 185-189 (Oct 1998), 11T28

Calculation of residual stresses in metal-matrix composite laminated plates under transverse loads, Appl Mech Eng **4**(1) 171-185 (1999), 11T29

Effective elastic properties of triangular grid structures, Composite Struct **45**(2) 131-145 (Jun 1999), 11A30

Elastic response of a typical CFRP payload fairing due to separation impulse, Composite Struct **45**(2) 147-154 (Jun 1999), 11A31

Finite element method submodeling fatigue analysis of a complex helicopter component, Int J Fatigue **21**(5) 445-455 (May 1999), 11A32

Finite element modeling of local contact conditions in gear teeth, J Strain Anal Eng Des **34**(2) 129-142 (Mar 1999), 11A33

Finite-element analysis of masonry arch bridges, Proc Inst Civil Eng Struct Build **134**(2) 119-127 (May 1999), 11A34

Longitudinal shearing of elastic-plastic fibrous composite with frictional fiber-matrix interface, J Theor Appl Mech **36**(4) 855-877 (1998), 11A35

Nonlinear FE analysis and adina, Comput Struct **72**(1-3) (Jul-Aug 1999), 11T36

Problems of structural mechanics and computer techniques in the last decade (Polish), Inzynieria Budownictwo **54**(9) 482-485 (1998), 11T37

Remarks on the applicability of rectangular elements to plane strain boundary value problems, Comput Assisted Mech Eng Sci **5**(3) 299-309 (1998), 11A38

Stress analysis of a postbuckled laminated composite plate, Struct Eng and Mech **7**(4) 377-386 (Apr 1999), 11A39

Three-dimensional global-local analysis of composite hip prostheses: A model for multiscale structural analysis, Composite Struct **45**(3) 163-170 (Jul 1999), 11A40

Evaluation of dynamic stresses in pipelines using limited vibration measurements and FEA in the frequency domain, J Pressure Vessel Tech **121**(3) 241-245 (Aug 1999), 11A229

Parametric equations to predict stress distributions along the intersection of tubular X and DT-joints, Int J Fatigue **21**(6) 619-635 (Jul 1999), 11A461

Experimental and FE study of the non-linear force: Displacement characteristics of tubular YT-joints under combined axial loading, J Strain Anal Eng Des **34**(3) 183-207 (May 1999), 11A487

Damage mechanics of top-hat stiffeners used in FRP ship construction, Marine Struct **12**(1) 1-19 (Jan 1999), 11A525

Interlaminar stresses at the free corners of a laminate, Composite Struct **45**(2) 155-162 (Jun 1999), 11A542

Geometrically nonlinear elastic analysis of space trusses, Struct Eng and Mech **7**(4) 345-360 (Apr 1999), 11A557

Lateral buckling strengths of cold-formed Z-sections beams, Thin-Walled Struct **34**(1) 65-93 (May 1999), 11A591

Developments of sizing sensitivity analysis with the ABAQUS code, Struct Optim **17**(2-3) 219-225 (Apr 1999), 11A860

Structural shape sensitivity analysis for nonlinear material models with strain softening, Struct Optim **17**(2-3) 162-171 (Apr 1999), 11A874

Approximate analyses of reinforced concrete slabs, Struct Eng and Mech **8**(1) 1-18 (Jul 1999), 11A889

Effect of excitation type on dynamic system parameters of a reinforced concrete bridge, Struct Eng and Mech **7**(4) 387-400 (Apr 1999), 11A895

Numerical study on RC flat plates subjected to combined axial and transverse load, Struct Eng and Mech **8**(2) 137-150 (Aug 1999), 11A905

Design formula for axially compressed perforated plates, Thin-Walled Struct **34**(1) 1-20 (May 1999), 11A920

Use of eccentric beam elements in the analysis of slab-on-girder bridges, Struct Eng and Mech **8**(1) 85-102 (Jul 1999), 11A944

Horizontal vessels on fixed supports used for storing high-temperature liquid: An experimental validation of FE modeling, J Strain Anal Eng Des **34**(2) 83-96 (Mar 1999), 11A959

Hybrid Finite Element Method for Stress Analysis of Laminated Composites (Kluwer, MA, 1998) 12R12

Best matrix approximation method for updating the analytical model, J Sound Vib **223**(5) 759-774 (Jun 1999), 12A23

Finite element method for predicting time-dependent deformations and damage accumulation in laminated composite bolted joints, J Composite Mat **33**(9) 794-826 (1999), 12A24

Finite element model for predicting tapered workpiece deflections in turning, Comput Model Simul in Eng **4**(2) 138-142 (May 1999), 12T25

Finite element solutions for optimal triangular plates, Int J Mech Sci **41**(11) 1289-1300 (Nov 1999), 12A26

Finite elements in the analysis of pressure vessels and piping: An addendum (1996-1998), Int J Pressure Vessels Piping **76**(7) 461-485 (Jun 1999), 12A27

Shakedown analysis of nozzles using elasto-plastic FEA, Int J Pressure Vessels Piping **76**(7) 421-434 (Jun 1999), 12A28

Singularity function representation in obtaining closed-form solutions to workpiece deflections in turning multidiameter bars, Comput Model Simul in Eng **4**(2) 133-137 (May 1999), 12T29

Three-dimensional stress analysis of countersunk fastener holes under bending, in woven-fabric composites, using contact elements, Comput Model Simul in Eng **4**(2) 99-103 (May 1999), 12T30

Dynamics experimental and analysis of a hard disk drive, J Vib and Control **5**(4) 535-557 (Jul 1999), 12A146

Incremental FE procedure for cumulative damage of 2D continua via two-surface plasticity, Comput Model Simul in Eng **4**(2) 143-149 (May 1999), 12A605

Spline FMS postbuckling analysis of shear-deformable rectangular laminates, Thin-Walled Struct **34**(2) 163-178 (Jun 1999), 12A669

Compressive buckling of laminates with an embedded delamination, Composites Sci Tech **59**(8) 1247-1260 (Jun 1999), 12A673

Influence of bend-twist coupling on the shear buckling response of thin laminated composite plates, Thin-Walled Struct **34**(2) 97-114 (Jun 1999), 12A674

Why local damage increases the buckling load of circular plates, Thin-Walled Struct **34**(2) 147-161 (Jun 1999), 12A675

Finite element analysis of short piles in expansive soils, Comput Geotech **24**(3) 231-243 (1999), 12A700

J estimation for shallow semi-elliptical surface cracks in wide plates under pure bending, Fatigue Fracture Eng Mat Struct **22**(5) 399-408 (1999), 12A822

Control and FE modeling, Smart Mat Struct **8**(3) 285-432 (Jun 1999), 12T903

Static reanalysis for topological modifications of structures, Acta Mech Solida Sinica **12**(2) 155-164 (Jun 1999), 12A935

MSE and FE modeling of thrusts to elastic joints of long vertical pipe in 3D nonlinear motions, Int J Offshore Polar Eng **9**(2) 117-125 (Jun 1999), 12A946

Ritz vector approach for evaluating incabinet response spectra, Nucl Eng Des **190**(3) 255-272 (Jun 1999), 12A1536

102E. Other solid mechanics applications

Finite-element analysis of the indentation of an elastic-work hardening layered half-space by an elastic sphere, Int J Mech Sci **40**(12) 1281-1293 (Dec 1998), 1A24

Numerical simulation of the pulling of multi-layer, multi-material composite with an explicit code (French), European J Mech Eng **43**(2) 51-60 (1998), 1A25

Rate-type mixed FEM for large transformations of non-viscous continua, Mech Res Commun **25**(4) 467-472 (Jul-Aug 1998), 1T26

Semi-analytical FE analysis of a strip footing on an elastic reinforced soil, Appl Math Model **22**(4-5) 331-349 (Apr-May 1998), 1A27

Impact behavior of laminated composites: Physical basis for FE analysis, Composites Sci Tech **58**(3-4) 463-478 (Mar-Apr 1998), 1A252

Rigid-plastic FEM equations based on void-damage theory (Chinese), J Shanghai Jiaotong Univ **32**(5) 10-13 (May 1998), 1A596

Compressive behavior of plain weave lamina, J Composite Mat **32**(15) 1334-1355 (1998), 1A630

Parametric study of a braced cut by FEM, Comput Geotech **22**(2) 91-107 (1998), 1A747

Three-dimensional rigid-plastic FEM analysis of the rolling of a strip with local residual deformation, J Mat Processing Tech **79**(1-3) 109-112 (Jul 1998), 1A760

Defect analysis in a semi-finished gear forging process by FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 1-5 (May 1998), 1A762

Numerical simulation of joint shell extrusion process using 3D FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 18-22 (May 1998), 1A771

Application of an inverse FE approach in the concurrent design of sheet stamping, J Mat Processing Tech **79**(1-3) 86-93 (Jul 1998), 1A775

Weight functions from FE displacements, Int J Pressure Vessels Piping **75**(3) 229-236 (Mar 1998), 1A875

Finite element analysis on relationships between the J-integral and CTOD for stationary cracks in welded tensile specimens, Int J Pressure Vessels Piping **75**(3) 197-202 (Mar 1998), 1A879

Applications of 2D elastoplastic stochastic FEM in the field of fracture mechanics, Int J Pressure Vessels Piping **75**(4) 281-286 (Apr 1998), 1A907

Parametric study of acetabular cup design variables using FE analysis and statistical design of experiments, J Biomech Eng **120**(5) 667-675 (Oct 1998), 1A1542

Nonlinear Finite Element Analysis of Solids and Structures, Volume 2: Advanced Topics (Wiley, UK, 1997) 2R2

Finite-element analysis for remote field eddy current responses from near- and farside cracks, Res Nondestructive Eval **10**(3) 163-169 (1998), 2A36

Hybrid numerical technique, combining the FE and BEMs, for modeling the 3D response of 2D scat-

terers, Bull Seismol Soc Am **88**(4) 1036-1050 (Aug 1998), 2A37
Local approach and FEM in brittle fracture prediction, Comput Assisted Mech Eng Sci **5**(2) 193-198 (1998), 2A38
Three-dimensional FE analysis for the stamping of a motorcycle oil tank, J Manuf Sci Eng **120**(4) 770-773 (Nov 1998), 2A39
Dispersion of waves in composite laminates with transverse matrix cracks, FE and plate theory computations, J Appl Mech **65**(3) 588-595 (Sep 1998), 2A290
Finite element analysis of creep using Theta projection data, Int J Pressure Vessels Piping **75**(5) 437-442 (Apr 1998), 2A620
Characterization of residual stresses generated during inhomogeneous plastic deformation, J Strain Anal Eng Des **33**(3) 243-252 (May 1998), 2A641
Elastic response of porous matrix plain weave fabric composites - Part II: Results, J Composite Mat **32**(16) 1472-1507 (1998), 2A682
Nonlinear geometric and material analysis of laterally loaded plates by FEM, J Eng Appl Sci **45**(3) 327-343 (Jun 1998), 2A694
Influence of a stabilizing platform on the performance of an embedded retaining wall: A FE study, Geotechnique **48**(3) 403-409 (Jun 1998), 2T764
Proceedings of the 7th International Conference on metal forming, J Mat Processing Tech **80-81** 1-712 (Aug-Sep 1998), 2A769
Study on the thermo-elastic-plastic cutting model for 3D tool with chip breaker, J Eng Mat Tech **120**(4) 265-274 (Oct 1998), 2A770
Analysis of interfacial cracks in a TBC-superalloy system under thermomechanical loading, J Eng Gas Turbines Power **120**(4) 813-819 (Oct 1998), 2A887
Smart materials and structures - A FE approach: A bibliography 1986-1997, Model Simulation Mat Sci Eng **6**(3) 293-334 (May 1998), 2A946
Evaluation of factors and current approaches related to computerized design of tillage tools: A review, J Terramech **35**(2) 69-86 (Apr 1998), 2A1038
Characteristics of resistance welding of lap shear coupons - Part I: Heat transfer, Composites Part A Appl Sci and Manuf **29A**(8) 899-909 (1998), 2A1293
Characteristics of resistance welding of lap shear coupons - Part II: Consolidation, Composites Part A Appl Sci and Manuf **29A**(8) 911-919 (1998), 2A1294
Characteristics of resistance welding of lap-shear coupons - Part III: Crystallinity, Composites Part A Appl Sci and Manuf **29A**(8) 921-932 (1998), 2A1295
Automatic simulation of a sequence of hot-former forging processes by a rigid-thermoviscoplastic FEM, J Eng Mat Tech **120**(4) 291-296 (Oct 1998), 2A1332
Three-dimensional FE analysis of thermal shock in a premolar with a composite resin MOD restoration, Med Eng Phys **20**(4) 269-275 (Jun 1998), 2A1570
Active vibration control of intelligent stiffened laminates using smart piezoelectric materials by the FEM, J Reinforced Plastics Composites **17**(16) 1472-1493 (1998), 3A29
Algorithm of automatic local mesh subdivision and its application to FE analysis of a large deformation forming process, J Mat Processing Tech **83**(1-3) 164-169 (Nov 1998), 3A30
Applying the FEM for determination of tool wear in conventional deep-drawing, J Mat Processing Tech **83**(1-3) 98-105 (Nov 1998), 3A31
Blank design and strain estimates for sheet metal forming processes by a FE inverse approach with initial guess of linear deformation, J Mat Processing Tech **82**(1-3) 145-155 (Oct 1998), 3A32
Dynamic analysis of two types of over-crank guillotine shears: A comparative study, J Mat Processing Tech **83**(1-3) 54-61 (Nov 1998), 3A33
Elastoplastic FE stress analysis and strength evaluation of adhesive lap joints of hollow shafts subjected to tensile loads, J Adhesion Sci Tech **12**(9) 907-922 (1998), 3A34
FE analysis of the residual stress distribution in the vicinity of a fatigue fractured surface, Eng Fracture Mech **60**(4) 447-455 (Jul 1998), 3A35
Finite element modeling of a residual lower-limb in a prosthetic socket: A survey of the development in the first decade, Med Eng Phys **20**(5) 360-373 (Jul 1998), 3A36
Finite-element analysis of the debinding and densification phenomena in the process of metal injection molding, J Mat Processing Tech **83**(1-3) 170-175 (Nov 1998), 3A37
Industrial applications of sheet-stamping simulation using new FE models, Comput Model Simul in Eng **3**(3) 147-152 (Aug 1998), 3A38
Particle cracking in discretely reinforced materials with the Voronoi Cell FE model, Int J Plasticity **14**(8) 805-827 (1998), 3A39
Sensitivity of FE analysis of forging to input parameters, J Mat Processing Tech **82**(1-3) 21-26 (Oct 1998), 3A40
Step-wise combined implicit-explicit FE simulation of autobody stamping processes, J Mat Processing Tech **83**(1-3) 245-260 (Nov 1998), 3A41
Viscoplastic analysis of bonded joints under complex loading, Polymers and Polymer Composites **6**(1) 15-24 (1998), 3A524
Adhesively-bonded repairs to fiber-composite materials - II: FE modeling, Composites Part A Appl Sci and Manuf **29A**(11) 1383-1396 (1998), 3A554
Experimental and FE analyses on the post-buckling behavior of repaired composite panels, Composites Part A Appl Sci and Manuf **29A**(11) 1463-1471 (1998), 3A635
Elastoplastic constitutive model for unsaturated soil and its FEM (Chinese), J China Univ Mining Tech **27**(3) 221-224 (1998), 3A663
Effects of lateral constraints and inertia on stress wave propagation in dry soil columns, Geotechnique **48**(4) 449-463 (Aug 1998), 3A664
Effect of berms on sheet-pile wall behavior, Geotechnique **48**(4) 569-574 (Aug 1998), 3A665
Numerical modeling of the metal blanking process, J Mat Processing Tech **83**(1-3) 192-199 (Nov 1998), 3A685
Finite element analysis of forming limit in bore expanding of aluminium alloy sheets, Arch Appl Mech **68**(7-8) 566-576 (Sep 1998), 3A693
Implementation of an equivalent drawbead model in a FE code for sheet metal forming, J Mat Processing Tech **83**(1-3) 234-244 (Nov 1998), 3A694
Numerical simulation of steady state metal cutting, Proc Inst Mech Eng C **212**(C5) 331-341 (1998), 3A704
Internally circumferentially cracked cylinders with functionally graded material properties, Int J Pressure Vessels Piping **75**(6) 499-507 (May 1998), 3A786
Dynamic stress intensity factors in a 2D punch test, Eng Fracture Mech **60**(4) 421-435 (Jul 1998), 3A800
Failure of a porous solid from a deep notch, Int J Fracture **88**(2) 187-203 (1997), 3A802
Finite element analysis and experimental evaluation of ductile-brittle transition in compact tension specimen, Int J Fracture **87**(4) 345-362 (1997), 3A803
Behavior of crack surface ligaments, Nucl Eng Des **184**(1) 145-153 (Aug 1998), 3A833
Estimating the plastic collapse of pressure vessels using plasticity contours, Int J Pressure Vessels Piping **75**(7) 529-536 (Jun 1998), 3A927
Experimental and FE studies of the running of V-ribbed belts in pulley grooves, Proc Inst Mech Eng C **212**(C5) 343-354 (1998), 3A954
Finite element analysis of automobile gearbox based on the thermal network analysis (Chinese), J Huazhong Univ Sci Tech **26**(6) 84-86 (Jun 1998), 3A962
Porohyperelastic-transport-swelling theory, material properties and FE models for large arteries, Int J Solids Struct **35**(34-35) 5021-5031 (Dec 1998), 3A1534
Analysis of bimaterial wedges using a new singular FE, Int J Fracture **88**(4) 373-391 (1998), 4A20
Concise FE model for simple straight wire rope strand, Int J Mech Sci **41**(2) 143-161 (Feb 1999), 4A21
FEM simulations and experimental analysis of parameters of influence in the blanking process, J Mat Processing Tech **84**(1-3) 97-106 (Dec 1998), 4A22
Finite element analysis and optimization on springback reduction, Int J Machine Tools Manuf **39**(3) 517-536 (Mar 1999), 4A23
Finite element modeling of the interaction of residual stress with mechanical load for a crack emanating from a cold worked fastener hole, J Strain Anal Eng Des **33**(4) 275-289 (Jul 1998), 4A24
Natural element method in solid mechanics, Int J Numer Methods Eng **43**(5) 839-887 (Nov 1998), 4A25
New FE model used in post-buckling analysis for delaminated damage of laminated plate-shell (Chinese), J Dalian Univ Tech **38**(5) 511-515 (Sep 1998), 4A26
Finite element solution of the problem of a spherical inhomogeneity in an infinite power-law viscous matrix, Eur J Mech A **17**(5) 725-740 (1998), 4A536
SMA pseudoelastic finite strains: Theory and numerical application, J Eng Mat Tech **121**(1) 44-47 (Jan 1999), 4A582
Prediction of coiling conditions of plate in coilbox by controlled FEM simulation, Int J Machine Tools Manuf **39**(3) 403-413 (Mar 1999), 4A674
Behavior of intact and damaged honeycombs: A FE study, Int J Mech Sci **41**(1) 85-105 (Jan 1999), 4A681
Preform design of a generic turbine disk forging process, J Mat Processing Tech **84**(1-3) 193-201 (Dec 1998), 4A721
Study of pore closure in the manufacturing of heavy rings, J Mat Processing Tech **84**(1-3) 25-37 (Dec 1998), 4A722
FE simulation of the influence of thermal and elastic effects on the accuracy of cold-extruded components, J Mat Processing Tech **84**(1-3) 247-260 (Dec 1998), 4A723
Finite element analysis of melting and solidifying processes in laser rapid prototyping of metallic powders, Int J Machine Tools Manuf **39**(2) 237-252 (Feb 1999), 4A764
Investigation on vibration-drill life using the FEM (Chinese), J Huazhong Univ Sci Tech **26**(8) 29-31 (Aug 1998), 4A774
Predicting fracture from the tensile properties of a composite biomaterial, Composites Part A Appl Sci and Manuf **29A**(12) 1475-1480 (1998), 4A827
Dilatational curves in the kinetics of phase transformation for the hardening processes of cylindrical machine elements, J Thermal Stresses **21**(7) 727-741 (Oct 1998), 4A1358
Comparison of geometry-based and CT voxel-based FE modeling and experimental validation, Med Eng Phys **20**(7) 515-522 (Oct 1998), 4A1574
ED-Elas2D (CIMNE, Barcelona, 1998) 5N1
Finite element analysis of general contact problems and application for excavation of shield tunnel (Japanese), Proc JSCE **603**(III-44) 1-10 (Sep 1998), 5A30
Refined multilayered FE model applied to linear and nonlinear analysis of sandwich plates, Composites Sci Tech **58**(10) 1553-1569 (Oct 1998), 5A31
Modern practice in stress and vibration analysis, Int J Mech Sci **41**(4-5) 373-594 (Apr-May 1999), 5A156
Iterative method using consistent mass matrix in axisymmetric FE analysis of hypervelocity impact, Int J Impact Eng **21**(10) 817-825 (Nov 1998), 5A214
Assumed enhanced displacement gradient ring-element for finite deformation axisymmetric and torsional problems, Int J Numer Methods Eng **43**(8) 1369-1382 (Dec 1998), 5A444
Effect of the type of creep constitutive equation on strain and stress distributions of notched cylindrical bars under tension creep, J Strain Anal Eng Des **33**(5) 347-356 (Sep 1998), 5A450
Effect of block braking on the residual stress state of a solid railway wheel, Proc Inst Mech Eng F **212**(F2) 145-158 (1998), 5A476
Finite element modeling of deformation in particulate reinforced metal matrix composites with random local microstructure variation, Acta Mat **46**(17) 6075-6088 (Nov 1998), 5A493
Semi-analytical resolution of a generalized unidirectional self-consistent model: Theoretical bases and experiment in viscoelasticity, J Composite Mat **32**(23) 2084-2119 (1998), 5A508
Two-level FE study of axisymmetric cracks, Int J Fracture **89**(2) 193-203 (1998), 5A740
Calculation and analysis of a mode for helical gear based on FEM (Chinese), J Huazhong Univ Sci Tech **26**(11) 75-77 (Nov 1998), 5A846
Numerical errors and uncertainties in FE modeling of trabecular bone, J Biomech **31**(10) 941-945 (Oct 1998), 5A1548
Finite element analysis of anterior tooth root stresses developed during endodontic treatment, J Biomech Eng **121**(1) 108-115 (Feb 1999), 5A1576
Cosserat nonlinear FE analysis software for blocky structures, Adv Eng Software **30**(1) 69-83 (Jan 1999), 6A22
Finite element geometry creation using 3D laser profilometry, J Manuf Sci Eng **121**(1) 87-92 (Feb 1999), 6A23
Finite element study of electromagnetic riveting, J Manuf Sci Eng **121**(1) 61-68 (Feb 1999), 6A24
Finite elements for materials with strain gradient effects, Int J Numer Methods Eng **44**(3) 373-391 (Jan 1999), 6A25
H-adaptive FE analysis of elastoplastic non-homogeneous soil with large deformation, Comput Geotech **23**(1-2) 61-83 (1998), 6A26
Study of an oblique cutting model, J Mat Processing Tech **86**(1-3) 119-130 (Feb 1999), 6A27
Solving problem of laminates transient temperature by Laplace transform FEM (Chinese), J China Univ Mining Tech **27**(4) 445-447 (1998), 6A73
Three-dimensional FE analysis of the evolution of voids and thin films by strain and electromigration induced surface diffusion, J Mech Phys Solids **47**(1) 173-199 (Jan 1999), 6A528
Algorithm based on total-elastic and incremental-plastic strain for large deformation plasticity, J Mat Processing Tech **86**(1-3) 190-199 (Feb 1999), 6A558
Finite elastic-plastic deformation behavior of crystalline solids based on a non-associated macroscopic flow rule, Int J Plasticity **14**(12) 1189-1208 (1998), 6A561
IDENT 1D: A novel software tool for an easy identification of material constitutive parameters, Nucl Eng Des **186**(3) 343-352 (Dec 1998), 6A581
Inelastic FE analysis of fiber-reinforced composite laminates with damage, Proc Inst Mech Eng C **212**(C8) 717-729 (1998), 6A631
Applications of wavelet Galerkin FEM to bending of beam and plate structures, Appl Math Mech **19**(8) 745-755 (Aug 1998), 6A638
Finite element method-boundary element method analysis of vibration of an enbankment track on layered soils for harmonic moving loads (Japanese), Proc JSCE **605**(I-45) 143-152 (Oct 1998), 6T757
Study of strain localization in the fine-blanking process using the large deformation FEM, J Mat Processing Tech **86**(1-3) 163-167 (Feb 1999), 6A783
Calculation of drawbead restraining forces with the Bauschinger effect, Proc Inst Mech Eng J Eng Manuf **212**(B7) 549-553 (1998), 6A791
Analysis of carbon fiber reinforced plastic cutting by FEM II, Int J Japan Soc Precision Eng **32**(3) 198-199 (Sep 1998), 6T795
Finite-element analysis and simulation of machining: A bibliography 1976-1996, J Mat Processing Tech **86**(1-3) 17-44 (Feb 1999), 6A800
Finite-element analysis of machining with the tool edge considered, J Mat Processing Tech **86**(1-3) 45-55 (Feb 1999), 6A801
Centrally cracked thin circular disk - Part I: 3D Elastic-plastic FE analysis, Int J Plasticity **14**(12) 1209-1239 (1998), 6A903
Three-dimensional FE simulation of crack extension in aluminium alloy 2024FC, Fatigue Fracture Eng Mat Struct **21**(10) 1159-1173 (1998), 6A917
Failure analysis of polymer composite stiffened laminates using the FEM, J Reinforced Plastics Composites **18**(1) 2-14 (1999), 6A928
Element-failure algorithm for dynamic crack propagation in general directions, Eng Fracture Mech **61**(3-4) 407-425 (Sep-Nov 1998), 6A952
Use of constraint parameter A_2 determined from displacement in predicting fracture event, Eng Fracture Mech **61**(5-6) 487-502 (Nov-Dec 1998), 6A975
Upsetting of a cylindrical specimen between elastic tools, J Mat Processing Tech **86**(1-3) 73-80 (Feb 1999), 6A1405
Finite element analysis of trabecular bone structure: A comparison of image-based meshing techniques, J Biomech **31**(12) 1187-1192 (Dec 1998), 6A1569
Combined FE-BE thermo-mechanical analysis of metal forming processes, J Mat Processing Tech **87**(1-3) 247-257 (Mar 1999), 7A20
Comparative studies on stresses in weld-bonded, spot-welded and adhesive-bonded joints, J Mat Processing Tech **87**(1-3) 230-236 (Mar 1999), 7A21
Finite element for composite piezoelectric laminate (Chinese), J Shanghai Jiaotong Univ **32**(11) 131-134 (Nov 1998), 7A22
Fintie element model of ferroelastic polycrystals, Int J Solids Struct **36**(10) 1541-1556 (Apr 1999), 7A23
Stochastic model of rough surfaces for FE contact analysis, Comput Methods Appl Mech Eng **169**(1-2) 43-59 (Jan 1999), 7A24
Variability of seismic response of soils using stochastic FEM, Soil Dyn Earthquake Eng **18**(3) 229-245 (Apr 1999), 7A25
Two-dimensional elastic contact analysis by coupling FE and BEMs, J Strain Anal Eng Des **33**(6) 459-468 (Nov 1998), 7A475
Finite element solutions comparing the normal contact of an elastic-plastic layered medium under loading by: (a) A rigid and (b) A deformable indenter, J Strain Anal Eng Des **33**(6) 411-418 (Nov 1998), 7A506
Finite element analysis of a strain hardening layered medium under normal loading by: (a) A rigid and (b) A deformable indenter, J Strain Anal Eng Des **33**(6) 411-410 (Nov 1998), 7A508
Study of through-thickness residual stress by numerical and experimental techniques, J Strain Anal Eng Des **33**(6) 449-458 (Nov 1998), 7A517
General algorithm for plastic flow simulation by FE limit analysis, Int J Solids Struct **36**(8) 1193-1207 (Mar 1999), 7A519
Finite-element simulation of the lateral compression of aluminium tube between rigid plates, Int J Mech Sci **41**(6) 621-638 (Jun 1999), 7A608
Effects of horizontal drains on slope stability under rainfall by 3D FE analysis, Comput Geotech **23**(4) 255-275 (1998), 7A636
Automatic remeshing of 2D quadrilateral elements and its application to continuous deformation simulation - Part I: Remeshing algorithm, J Mat Processing Tech **87**(1-3) 165-178 (Mar 1999), 7A656
Automatic remeshing of 2D quadrilateral elements and its application to continuous deformation simulation - Part II: Applications, J Mat Processing Tech **87**(1-3) 179-191 (Mar 1999), 7A657
Nonlinear FE analysis of springback, Commun Numer Methods Eng **15**(1) 33-42 (Jan 1999), 7A658
Finite element analysis of construction stability of Thika Dam, Comput Geotech **23**(4) 205-219 (1998), 7A856
Advanced Applied Finite Element Methods (Horwood Publ, Chichester UK, 1998) 8R1
Vehicle dynamics simulations with coupled multibody and FE models, Finite Elements Anal Des **31**(4) 295-315 (Feb 1999), 8A25
Finite-element analysis of a polymer composite subjected to ball indentation, Composites Sci Tech **59**(2) 271-281 (Feb 1999), 8A578
Woven fabric composite material model with material nonlinearity for nonlinear FE simulation, Int J Solids Struct **36**(18) 2757-2771 (Jun 1999), 8A595
Sensitivity of a Weibull failure criterion to singularity strength and local geometry variations, Int J Adhesion Adhesives **19**(1) 71-82 (Feb 1999), 8A761
SIF evaluation and stress analysis of drillstring threaded joints, Int J Pressure Vessels Piping **76**(2) 91-103 (Feb 1999), 8A773
Stress intensity factors for a functionally graded material cylinder with an external circumferential crack, Fatigue Fracture Eng Mat Struct **21**(12) 1447-1457 (1998), 8A774

Theory and prediction of localized failure in materials, Mech Cohesive-Frictional Mat **4**(2) 101-194 (Mar 1999), 8A801
Substrate volume and stress gradient concepts in mechanical adhesion: Analysis of single straight sections, J Adhesion Sci Tech **13**(2) 237-271 (1999), 8A955
Two-dimensional FE thermal stress analysis of adhesive butt joints containing some hole defects, J Adhesion Sci Tech **13**(3) 309-323 (1999), 8A957
Analysis of titanium induced CT artifacts in the development of biomechanical FE models, Med Eng Phys **20**(9) 653-659 (Nov-Dec 1998), 8A1591
Finite element analysis of a gamma nail within a fractured femur, Med Eng Phys **20**(9) 677-683 (Nov-Dec 1998), 8A1614
Finite Element Analysis in Geotechnical Engineering: Theory (Telford, UK, 1999) 9R22
Computer modeling and simulation in engineering, Comput Model Simul in Eng **4**(1) 4-69 (Feb 1999), 9A14
Nonlinear FE analysis of Iosipescu specimens, Composites Sci Tech **59**(4) 561-573 (Mar 1999), 9A32
General elastoplastic FE formulation based on incremental deformation theory for planar anisotropy and its application to sheet metal forming, Int J Plasticity **15**(1) 35-67 (1999), 9A592
Local effects in stiffened composite tubes under generalized plane deformation, J Composite Mat **33**(5) 420-442 (1999), 9A672
Numerical and experimental investigations of contact in thin and thick rings, Int J Mech Sci **41**(9) 1051-1066 (Sep 1999), 9A688
Efficient FE techniques for limit analysis of suction caissons under lateral loads, Comput Geotech **24**(2) 89-107 (1999), 9A758
Three-dimensional rigid-plastic FE analysis of non-steady-state shaped drawing process, Int J Machine Tools Manuf **39**(7) 1135-1155 (Jul 1999), 9A770
Concurrent design of sheet metal forming product and process, J Manuf Sci Eng **121**(2) 189-194 (May 1999), 9A772
Implementation of FE based fatigue monitoring system at Heavy Water Plant Kota, Nucl Eng Des **187**(2) 153-163 (Feb 1999), 9A817
Fatigue failure analysis of last stage blade in a low pressure steam turbine, Eng Failure Anal **6**(2) 93-100 (Apr 1999), 9A824
Upper and lower bounds for evaluation of nonlinear fracture parameters, Eng Fracture Mech **62**(2-3) 185-201 (Jan-Feb 1999), 9A854
Finite element analysis of fracture initiation in ductile-brittle periodically layered composites, Int J Fracture **90**(4) 299-323 (1998), 9A883
Role of damage on the tensile behavior of a knitted fabric composite: A preliminary FE study, Sci Eng Comp Mat **8**(1) 11-24 (1999), 9A892
Transverse cracking and delamination in cross-ply gr-ep composites under dry, saturated and immersed fatigue, Int J Fracture **91**(2) 103-116 (1998), 9A895
Numerical analysis of ductile failure of undermatched interleaf in tension, Int J Fracture **91**(4) 323-347 (1998), 9A902
Analysis of chipping in brittle materials, Int J Fracture **90**(4) 287-298 (1998), 9A917
Determination of T-stress from FE analysis for mode I and mixed mode I-II loading, Int J Fracture **91**(3) 283-298 (1998), 9A922
Fracture behavior of the aluminum lined hoop-wrapped cylinders with internal axial cracks, Int J Pressure Vessels Piping **76**(4) 251-257 (Apr 1999), 9A926
Nonlinear FE eigenanalysis of singular plane stress fields in bimaterial wedges including complex eigenvalues, Int J Fracture **90**(3) 175-207 (1998), 9A930
Numerical investigation on stable crack growth in plane stress, Int J Fracture **91**(2) 117-130 (1998), 9A931
Integration method for input-output modeling and error analysis of four-bar polymer compliant micromachines, J Mech Des **121**(2) 220-228 (Jun 1999), 9A1087
Material properties assignment to FE models of bone structures: A new method, Med Eng Phys **20**(10) 735-740 (Dec 1998), 9A1562
Dynamic Soil-Structure Interaction (Elsevier Sci BV, Netherlands, 1998) 10N18
Iterative technique for the FE analysis of near-incompressible materials, Comput Methods Appl Mech Eng **170**(1-2) 79-101 (Feb 1999), 10A47
Two-dimensional elastic-plastic FE analysis of friction effects on sliding crack surfaces in full or partial contact, Fatigue Fracture Eng Mat Struct **22**(2) 101-110 (1999), 10A48
Three-dimensional frictional contact element whose stiffness matrix is symmetric, J Appl Mech **66**(2) 460-467 (Jun 1999), 10A65
Large amplitude vibration of polymer composite stiffened laminates by the FEM, J Reinforced Plastics Composites **18**(5) 421-436 (1999), 10A208
Active vibration control and suppression for integrated structures, Appl Math Mech **20**(2) 171-178 (Feb 1999), 10A241
Axial velocity distribution imparted on thin media transported by layered rolls, Int J Mech Sci **41**(10) 1233-1251 (Oct 1999), 10A569
Triaxial tension-compression tests for multiaxial cyclic plasticity, Int J Plasticity **15**(5) 521-549 (1999), 10A579
A simple non-linear global-local FE methodology for composite structures, Adv Composites Letters **8**(1) 7-12 (1999), 10A661
Stabilized FEs with equal order of interpolation for soil dynamics problems, Arch Comput Methods Eng **6**(1) 3-33 (1999), 10A774
Parametric investigation into the coalescence of coplanar fatigue cracks, Int J Fatigue **21**(4) 355-360 (Apr 1999), 10A846
Tools for a multiaxial random fatigue analysis with FEs, European J Mech Eng **44**(1) 11-15 (1999), 10A872
Crack-modeling technique: Optimization of parameters, Fatigue Fracture Eng Mat Struct **22**(1) 41-50 (1999), 10A890
Different fracture performance of all-steel and all-aluminium cylinders with axial cracks, Int J Pressure Vessels Piping **76**(6) 345-353 (May 1999), 10A894
Modeling elastic wave propagation in waveguides with the FEM, NDT&E Int **32**(4) 225-234 (Jun 1999), 10A962
Three-dimensional FE analysis of laminated rubber bearings using the selective integration method, JSME Int J Ser A **42**(1) 40-48 (Jan 1999), 10A1045
Numerical methods for nonlinear coupled problems in porous media (Chinese), J Dalian Univ Tech **39**(2) 166-171 (Mar 1999), 10A1494
Handbook of Numerical Analysis, Volume VI: Numerical Methods for Solids (Part 3), Numerical Methods for Fluids (Part 1) (Elsevier Sci, New York, 1998) 11N9
Simulation of Materials Processing: Theory, Methods and Applications (Balkema, Rotterdam, Netherlands, 1998) 11N23
Nonlocal constitutive models with gradients of internal variables derived from a micro-macro homogenization procedure, Comput Methods Appl Mech Eng **174**(1-2) 121-136 (May 1999), 11A41
Simulated stiffness determination from simple compression tests on a thick laminate, Composites Part A Appl Sci and Manuf **30A**(7) 849-858 (1999), 11A42
Space-time approach to rail-wheel contact and corrugations problem, Comput Assisted Mech Eng Sci **5**(3) 267-283 (1998), 11A43
Wave approach to FE analysis of solids, Mech Res Commun **26**(2) 191-196 (Mar-Apr 1999), 11T44
Effect of a large hole on the stress concentration factor of a satellite hole in a tension field, J Pressure Vessel Tech **121**(3) 252-256 (Aug 1999), 11A459
Multilevel methods for Wilson element approximation of elasticity problem, Comput Methods Appl Mech Eng **174**(1-2) 191-201 (May 1999), 11A475
Analysis of termination effects in wire strand using the FE method, J Strain Anal Eng Des **34**(1) 31-38 (Jan 1999), 11A560
Proceedings of the 4th Pacific Conference on Material Processing: Singapore May 19-20, 1999, J Mat Processing Tech **89-90** 1-591 (May 1999), 11T686
Three-dimensional FEM simulation of the cross-shaft multi-stage forging processes (Chinese), J Shanghai Jiaotong Univ **33**(2) 192-195 (Feb 1999), 11A689
Effective split of flow and die deformation calculations of aluminium extrusion, J Mat Processing Tech **88**(1-3) 67-76 (Apr 1999), 11A691
Influence of punch shapes on the collar-drawing process of sheet steel, J Mat Processing Tech **88**(1-3) 134-146 (Apr 1999), 11A695
Springback analysis for sheet forming processes by explicit FEM in conjunction with the orthogonal regression analysis, Int J Solids Struct **36**(30) 4653-4668 (Oct 1999), 11A704
Application of penalty-equilibrium hybrid stress element method to crack problems, Eng Fracture Mech **63**(1) 1-22 (May 1999), 11A782
Decomposed crack closure integrals for estimation of SIF variations, Eng Fracture Mech **63**(2) 165-178 (May 1999), 11A783
Fracture process zone modeling of monolithic Al_2O_3, Eng Fracture Mech **63**(2) 115-129 (May 1999), 11A798
Three dimensional elastic-plastic FE modeling of small fatigue crack growth under a single tensile overload, Eng Fracture Mech **63**(3) 229-251 (Jun 1999), 11A803
Joint elements, stress post-processing and superconvergent extraction with application to Mohr-Coulomb failure, Commun Numer Methods Eng **15**(5) 335-347 (May 1999), 11A1017
Finite Element Methods and Error Analysis Procedures: A Unified Approach (Academic Press, San Diego CA, 1999) 12R1
Applications of wavelet Galerkin FEM to bending of plate structure, Acta Mech Solida Sinica **12**(2) 136-143 (Jun 1999), 12A31
Design of foundation rafts by uncoupled iterative method, Comput Assisted Mech Eng Sci **6**(1) 27-37 (1999), 12A32
Efficient and reliable analysis of structural collapse by using a DQFEM along with a GSR-based accelerated equilibrium iteration procedure, Int J Pressure Vessels Piping **76**(7) 411-420 (Jun 1999), 12A33
Eulerian FE simulations of experimentally acquired HMX microstructures, Model Simulation Mat Sci Eng **7**(3) 333-354 (May 1999), 12A34
Finite element analysis of the effect of processing conditions on thermoforming, J Reinforced Plastics Composites **18**(7) 673-682 (1999), 12A35
Finite-element investigation of the compressive strength of non-crimp-fabric-based composites, Composites Sci Tech **59**(8) 1287-1297 (Jun 1999), 12A36
Incremental formultion of FLEM based on the objective stress-rate for large deformation analysis (Japanese), J Soc Mat Sci Japan **48**(4) 323-328 (Apr 1999), 12A37
Reasonable method for contracting general element DM4 of thick and thin plate with effectual and reliable numerical solutions, Appl Math Mech **20**(3) 319-327 (Mar 1999), 12A38
Multi-wave transient and harmonic infinite elements for 2D unbounded domain problems, Comput Geotech **24**(3) 185-206 (1999), 12A194
Viscoelastic-plastic model for skeletal structural systems with clearances, Comput Assisted Mech Eng Sci **6**(1) 83-106 (1999), 12A597
Finite element analysis of composite folded plates with elastically restrained edges, J Reinforced Plastics Composites **18**(7) 626-641 (1999), 12A659
Geomechanics, Int J Solids Struct **36**(31-32) 4699-4974 (Nov 1999), 12A691
Selection of load-transfer functions for passive lateral loading of pile groups, Comput Geotech **24**(3) 155-184 (1999), 12A702
Computer simulation of the inflation process in blow molding, J Reinforced Plastics Composites **18**(8) 759-774 (1999), 12A745
Three-dimensional modeling of ductile crack growth in thin sheet metals: Computational aspects and validation, Eng Fracture Mech **63**(4) 347-374 (Jul 1999), 12A826
Micromechanics-based FE model for compressive failure of notched uniply composite laminates under remote biaxial loads, J Eng Mat Tech **121**(3) 360-366 (Jul 1999), 12A833
Numerical evaluation of the stress distribution ahead of a crack tip for a finite-width center-cracked specimen loaded by stresses along a portion of the crack, Fatigue Fracture Eng Mat Struct **22**(5) 453-456 (1999), 12A847
Analytical and numerical calculation of the energy release rate for the microbond-test, J Adhesion **70**(1-2) 33-56 (May 1999), 12A850
Delamination onset prediction in mechanically fastened joints in composite laminates, J Composite Mat **33**(10) 906-927 (1999), 12A1014

102G. Fluid mechanics applications

Adaptive FE wind analysis with mesh refinement and recovery, Wind Struct **1**(1) 111-125 (Mar 1998), 1A28
Discretization schemes of advection term in the FEM for incompressible Navier-Stokes equation, Appl Mech Eng **3**(1) 39-53 (1998), 1A29
Free surface flow over curved surfaces - Part I: Perturbation analysis, Int J Numer Methods Fluids **28**(2) 191-200 (Aug 1998), 1A30
Safety analysis using FEs, Comput Geotech **22**(2) 165-181 (1998), 1A746
Numerical simulation of cavitating flow using the upstream FEM, Appl Math Model **22**(4-5) 235-250 (Apr-May 1998), 1A1086
Free-surface flow over curved surfaces - Part II: Computational model, Int J Numer Methods Fluids **28**(2) 201-213 (Aug 1998), 1A1105
Numerical study of wake structure behind a square cylinder at high Reynolds number, Wind Struct **1**(2) 127-144 (Jun 1998), 1A1113
A posteriori error estimation of steady-state FE solutions of the Navier-Stokes equations by a subdomain residual method, Comput Methods Appl Mech Eng **159**(1-2) 19-48 (Jul 1998), 1A1123
Computational fluid dynamics in Russia, Int J Comput Fluid Dyn **10**(2) 91-182 (1998), 2T40
Design sensitivity and FE analysis of free surface flows with application to optimal design of casting rigging systems, Int J Numer Methods Fluids **28**(3) 419-442 (Sep 1998), 2A41
Domain decomposition for least-squares FEM for the Stokes equations, Appl Math Comput **97**(1) 45-53 (Dec 1998), 2A42
Modeling contaminant transport in groundwater: An optimized FEM, Appl Math Comput **96**(1) 89-100 (Oct 1998), 2A43
Parallel iterative computational methods for 3D FE flow simulations, Comput Assisted Mech Eng Sci **5**(2) 173-183 (1998), 2A44
A posteriori error estimation based on discrepancies in an entropy variable, Int J Comput Fluid Dyn **10**(3) 183-198 (1998), 2T45
Shape optimization method for nozzle design, Comput Assisted Mech Eng Sci **5**(1) 45-54 (1998), 2A46
Three-dimensional shallow water flow computation by a semi-implicit FEM, J Hydrodyn **10**(2) 21-28 (1998), 2T47
Unified FE formulation for compressible and incompressible flows using augmented conservation variables, Comput Methods Appl Mech Eng **161**(3-4) 229-243 (Aug 1998), 2A48
Velocity-vorticity formulation of the 2D Stokes system and its FE approximation, Int J Comput Fluid Dyn **10**(1) 27-43 (1998), 2T49
Method of influence functions for thermal analyses of tribological elements, Trib Trans **41**(3) 350-358 (Jul 1998), 2T1010
Adaptive grid Eulerian method for the computation of free surface flows, Int J Comput Fluid Dyn **10**(3) 213-224 (1998), 2T1092
Dynamic adaption algorithm for grid, time and satellite processors for nodal FE formulations of Navier-Stokes equations, Comput Methods Appl Mech Eng **161**(3-4) 215-228 (Aug 1998), 2A1104
Reconstruction of upwind fluxes for conservation laws: Its behavior in dynamic and steady state calculations, J Comput Phys **144**(2) 237-256 (Aug 1998), 2T1132
Performance of hydrostatic-hybrid journal bearings with unconventional recess geometries, Trib Trans **41**(3) 375-381 (Jul 1998), 2A1253
Finite element system approach to EHL of elliptical contacts - Part I: Isothermal circular non-Newtonian formulation, J Trib **120**(4) 695-704 (Oct 1998), 2A1259
Adaptive FE simulation of Stokes flow in porous media, Adv Water Resources **22**(1) 17-31 (Sep 1998), 3T42
Approximation of the unsteady Navier-Stokes equations by FE projection methods, Numer Math **80**(2) 207-238 (Aug 1998), 3A43
Error indicators for the Navier-Stokes equations in stream function and vorticity formulation, Numer Math **80**(2) 181-206 (Aug 1998), 3A44
Finite element analysis of Mach reflection by using the Boussinesq equation, Int J Numer Methods Fluids **28**(4) 617-631 (Sep 1998), 3A45
Local mesh adaptation technique for front tracking problems, Int J Numer Methods Fluids **28**(4) 719-736 (Sep 1998), 3A1046
Third-order Taylor-Galerkin model for the simulation of 2D unsteady free surface flows, Appl Math Model **22**(9) 641-656 (Sep 1998), 3A1054
Analysis in compressible fluid mechanics, Z Angew Math Mech **78**(9) 579-596 (1998), 3A1082
Free convection heat transfer from an isothermal wavy surface in a porous enclosure, Int J Numer Methods Fluids **28**(4) 633-661 (Sep 1998), 3A1237
Discontinuous hp FEM for diffusion problems, J Comput Phys **146**(2) 491-519 (Nov 1998), 4T27
Finite element study of the blood flow in total cavopulmonary connection, Comput Fluids **28**(1) 19-39 (Jan 1999), 4A28
Permeability modeling of fibrous media in composite processing, J Non-Newtonian Fluid Mech **79**(2-3) 585-598 (Nov 1998), 4A29
Second-order hybrid FE-volume method for viscoelastic flows, J Non-Newtonian Fluid Mech **79**(2-3) 405-431 (Nov 1998), 4A30
Turbulent flow computations on 3D unstructured grids, Finite Elements Anal Des **30**(4) 353-363 (Oct 1998), 4A31
Lagrangian particle method for macroscopic and micro-macro viscoelastic flow computations, J Non-Newtonian Fluid Mech **79**(2-3) 387-403 (Nov 1998), 4A539
Mixed FEMs for viscoelastic flow analysis: A review, J Non-Newtonian Fluid Mech **79**(2-3) 361-385 (Nov 1998), 4A540
Viscous flow with large fluid-fluid interface displacement, Int J Numer Methods Fluids **28**(5) 859-881 (Oct 1998), 4A1041
Finite element simulations of incompressible flow past a heated-cooled sphere, Int J Numer Methods Fluids **28**(6) 903-915 (Oct 1998), 4A1060
Simulations of 2D and 3D thermocapillary flows by a least-squares FEM, Int J Numer Methods Fluids **28**(6) 983-1007 (Oct 1998), 4A1067
Finite element solutions of Navier-Stokes equation for incompressible 2D flow (Chinese), Chinese J Comput Mech **15**(4) 379-386 (Nov 1998), 5A32
Parallel conjugate gradient performance for least-squares FEs and transport problems, Int J Numer Methods Fluids **28**(10) 1421-1440 (Dec 1998), 5A33
Research progress in Petrov-Galerkin FEMs for fluid mechanics: A review (Chinese), Chinese J Comput Mech **15**(4) 495-502 (Nov 1998), 5T34
Computational fluid dynamics in minerals and metals processing and power generation - II, Appl Math Model **22**(12) 965-1080 (Dec 1998), 5A46
Computational fluid dynamics in minerals and metals processing and power generation - I, Appl Math Model **22**(11) 843-962 (Nov 1998), 5A47
Simulation of 3D polymer mold filling processes using a pseudo-concentration method, Int J Numer Methods Fluids **28**(9) 1355-1369 (Dec 1998), 5A941
Fractional-step method for the incompressible Navier-Stokes equations related to a predictor-multicorrector algorithm, Int J Numer Methods Fluids **28**(10) 1391-1419 (Dec 1998), 5A973

Shock capturing viscosities for the general fluid mechanics algorithm, Int J Numer Methods Fluids **28**(9) 1325-1353 (Dec 1998), 5A993
Wall bondary conditions for inviscid compressible flows on unstructured meshes, Int J Numer Methods Fluids **28**(10) 1481-1501 (Dec 1998), 5A996
Accuracy of large eddy simulation for turbulent flow by the FEM, Proc Inst Mech Eng C **212**(C7) 643-650 (1998), 5A1078
Adaptive FEM for magnetohydrodynamics, J Comput Phys **147**(2) 318-336 (Dec 1998), 5A1098
Efficient probabilistic FEM for stochastic groundwater flow, Adv Water Resources **22**(2) 185-195 (Oct 1998), 5A1464
Adaptive FE solution of compressible turbulent flows, AIAA J **36**(12) 2187-2194 (Dec 1998), 6A28
Error analysis of a weighted least-squares FEM for 2D incompressible flows in velocity-stress-pressure formulation, Math Methods Appl Sci **21**(18) 1637-1654 (Dec 1998), 6A29
Wavelet-based numerical methods, Int J Comput Fluid Dyn **10**(4) 267-280 (1998), 6A30
Numerical simulation of sloshing waves in a 3D tank based on a FEM, Appl Ocean Res **20**(6) 337-355 (Dec 1998), 6T267
Elastic buckling of unilaterally constrained rectangular plates in pure shear, Eng Struct **21**(5) 443-453 (May 1999), 6A693
Implicit solution of Bi-penalty approximation with orthogonality projection for the numerical simulation of Bingham fluid flow, Appl Math Mech **19**(8) 725-734 (Aug 1998), 6A1128
Improved FE flux-corrected transport algorithm, J Comput Phys **148**(2) 605-620 (Jan 1999), 6A1222
Adaptive mesh refinement computation of solidification microstructures using dynamic data structures, J Comput Phys **148**(1) 265-290 (Jan 1999), 6A1370
Finite element method for the 1D extended Boussinesq equations, Int J Numer Methods Fluids **29**(2) 143-157 (Jan 1999), 7A26
Finite element modeling of the acoustic wave propagation from a cavity near a free surface, J Fluids Eng **121**(1) 205-208 (Mar 1999), 7A27
Scheme for generating unstructured grids on spheres with application to parallel computation, J Comput Phys **149**(1) 114-127 (Feb 1999), 7T28
Simulation of free and forced convection incompressible flows using an adaptive parallel-vector FE procedure, Int J Numer Methods Fluids **29**(3) 289-309 (Feb 1999), 7A29
Simulation of water flow and heat transfer in soils by means of a mixed FEM, Adv Water Resources **22**(5) 445-460 (Jan 1999), 7T30
Dynamic analysis of an annular cavity: Criteria for the selection of the modal basis, J Sound Vib **219**(4) 639-667 (Jan 1999), 7A267
Converged solutions of the Newtonian extrudate-swell problem, Int J Numer Methods Fluids **29**(3) 363-371 (Feb 1999), 7A661
Improved technique for solving 2D shallow water problems, Int J Numer Methods Fluids **29**(4) 465-483 (Feb 1999), 7A984
Rough finite volume scheme for modeling two-phase flow in a pipeline, Comput Fluids **28**(2) 213-241 (Feb 1999), 7T1026
Finite element method study of Eulerian droplets impingement models, Int J Numer Methods Fluids **29**(4) 429-449 (Feb 1999), 7A1029
Speed-up of a DFEM code for unsteady gas dynamics in pipes, Int J Mech Sci **41**(7) 793-813 (Jul 1999), 7A1055
Intermediate Finite Element Method: Fluid Flow and Heat Transfer Applications (Taylor & Francis, Philadelphia, PA, 1999) 8R2
Discrete non-local absorbing boundary conditions for exterior problems governed by Helmholtz equation, Int J Numer Methods Fluids **29**(5) 605-621 (Mar 1999), 8A26
ENO approximations for compressible fluid dynamics, Z Angew Math Mech **79**(1) 3-28 (1999), 8A27
Hybrid FE formulation for computational fluid mechanics, Strojnicky Casopis **50**(1) 24-37 (1999), 8A28
Mathematical model for gas bearing with holes of tangential supply, J Trib **121**(2) 301-305 (Apr 1999), 8A854
Modeling of flows between two consecutive reverse curves, J Hydraul Res **37**(1) 121-135 (1999), 8T976
Three-dimensional FE analysis of transient fluid flow with free-surface using marker surface method and adaptive grid refinement, Int J Numer Methods Fluids **29**(6) 657-684 (Mar 1999), 8A1002
Negative norm least-squares methods for the velocity-vorticity-pressure Navier-Stokes equations, Numer Methods PDE **15**(2) 237-256 (Mar 1999), 8A1047
Conservative stabilized FEM for the magneto-hydrodynamic equations, Int J Numer Methods Fluids **29**(5) 535-554 (Mar 1999), 8A1219
Grid generating algorithm for simulating a fluctuating water table boundary in heterogeneous unconfined aquifers, Adv Water Resources **22**(6) 567-575 (Feb 1999), 8T1517
Chebyshev pseudospectral-FEM for the 3D unsteady Navier-Stokes equation, Appl Math Comput **101**(2-3) 209-244 (Jun 1999), 9A33
Multistage simulation by an adaptive FE approach using structured grids, J Fluids Eng **121**(2) 450-459 (Jun 1999), 9A34
Finite element analysis of A polymeric liquid passing over a transverse slot, J Chinese Soc Mech Eng **20**(1) 67-74 (Feb 1999), 9A1198
Issues related to least-squares FEMs for the Stokes Equations, SIAM J Sci Comput **20**(3) 878-906 (Oct 1998), 10T49
Mixed FE-finite volume formulation of the black-oil model, SIAM J Sci Comput **20**(3) 970-997 (Oct 1998), 10A50
Numerical approximation of head and flux covariances in 3Ds using mixed FEs, Adv Water Resources **22**(7) 729-740 (Apr 1999), 10T51
Time-domain analysis of infinite reservoir by FEM using a novel far-boundary condition, Finite Elements Anal Des **32**(2) 85-96 (Apr 1999), 10A52
Multiphase flow in heterogeneous porous media: A classical FEM versus an implicit pressure-explicit saturation-based mixed FE-finite volume approach, Int J Numer Methods Fluids **29**(8) 899-920 (Apr 1999), 10A1490
Numerical methods for reactive transport on rectangular and streamline-oriented grids, Adv Water Resources **22**(7) 711-728 (Apr 1999), 10A1605
Discontinuous FEM for 2D conservation laws, J Chinese Soc Mech Eng **20**(2) 121-127 (Apr 1999), 11A45
Elliptic problem with integral constraints with application to large-scale geophysical flows, Comput Geosci **2**(4) 337-346 (Jan 1999), 11A46
European Community on Computational Methods in Applied Sciences: European Conference held in Paris, September 1996, Int J Numer Methods Fluids **30**(2) 127-228 (May 1999), 11A47
Finite element analysis of steady viscous flow in triangular cavities, Proc Inst Mech Eng C **213**(C3) 263-276 (1999), 11A48
Finite element implementation of two-equation and algebraic stress turbulence models for steady incompressible flows, Int J Numer Methods Fluids **30**(3) 309-333 (Jun 1999), 11A49
Rheological model and numerical simulation of dispersive mixing of rubber compounds, Appl Mech Eng **4**(S) 303-308 (1999), 11T50
Layer-averaged modeling of 2D turbidity currents with a dissipative-Galerkin FEM - Part II: Sensitivity analysis and experimental verification, J Hydraul Res **37**(2) 257-271 (1999), 11T1081
Numerical study of projection algorithms in the FE simulation of 3D viscous incompressible flow, Int J Numer Methods Fluids **30**(3) 233-256 (Jun 1999), 11A1103
Stabilized FEMs for steady incompressible flow, Comput Methods Appl Mech Eng **174**(1-2) 91-105 (May 1999), 11A1144
Finite element analysis on local yield map and critical maximum contact pressure for yielding in hard coating with an interlayer under sliding contact, Trib Int **32**(1) 25-32 (Jan 1999), 12T39
Integer lattice realization of a lax scheme for transport processes in multiple component fluid flows, J Comput Phys **152**(2) 493-516 (Jul 1999), 12T40
Time-dependent FEM for the simulation of 3D viscoelastic flow with integral models, J Non-Newtonian Fluid Mech **84**(2-3) 217-232 (Aug 1999), 12A41
Numerical modeling of Boussinesq equations by FEM, Coastal Eng **37**(2) 97-122 (Jul 1999), 12T227
Direct and indirect approaches at the plasto-hydrodynamic lubrication problem. Application to an industrial ironing process, J Trib **121**(3) 523-527 (Jul 1999), 12A721
Variable-domain variational FE solution of I_A inverse problem of 2D unsteady compressible flow around oscillating airfoils, J Shanghai Univ **3**(2) 114-120 (Jun 1999), 12A1110
Conditional statistical inverse modeling in groundwater flow by multigrid methods, Comput Geosci **3**(1) 49-68 (Apr 1999), 12A1532

102J. Other applications

Case history: Computation of normalized dynamic mesh force and transmissibility spectra for vibro-acoustic control of roots-type supercharger systems, Noise Control Eng J **46**(3) 120-131 (May-Jun 1998), 1A31
Electronics packaging, Finite Elements Anal Des **30**(1-2) 1-173 (Jul 1998), 1A32
Enhanced consolidation in brittle geomaterials susceptible to damage, Mech Cohesive-Frictional Mat **3**(3) 291-303 (Jul 1998), 1A33
Immersed interface method using a FE formulation, Appl Numer Math **27**(3) 253-267 (Jul 1998), 1A34
Numerical simulations of impacts using a discrete element method, Mech Cohesive-Frictional Mat **3**(3) 257-276 (Jul 1998), 1A35
Sensitivity calculations for structural-acoustic EFEM predictions, Noise Control Eng J **46**(3) 91-96 (May-Jun 1998), 1A36
Superstable time-discrete scheme for the numerical integration of viscous constitutive equations, Mech Cohesive-Frictional Mat **3**(3) 229-256 (Jul 1998), 1A37
Vibroacoustic behavior of an elastic box using state-of-the-art FEM-BEM approaches, Noise Control Eng J **46**(3) 83-90 (May-Jun 1998), 1A38
Yielding and deformation of porous plastic materials, Mech Mat **30**(1) 55-68 (Sep 1998), 1A584
Proceedings of the International Symposium on deformation characteristics and modeling of materials in honor of Professor Sia Nemat-Nasser's 60th birthday: Sendai, Japan, August 22-23, 1996, Mech Mat **28**(1-4) 1-279 (May 1998), 1T633
Finite element analysis of liquid ejection in continuously cast slab by sequential forging, Int J Machine Tools Manuf **38**(10-11) 1149-1163 (Oct-Nov 1998), 1A764
Adapting meshes and time-steps for phase change problems, Rendiconti Lincei Matematica e Appl **VIII**(4) 273-292 (1997), 1A1328
Opening mechanics of the aortic root: Non homogeneous and non isotropic FEM model of biological structure, Mech Res Commun **25**(4) 405-413 (Jul-Aug 1998), 1T1490
Blending hierarchical economic decision matrices with FE and stochastic modeling - II: Detailing EDM, Finite Elements Anal Des **30**(3) 219-234 (Aug 1998), 2A50
Characteristic FEMs for diffusion epidemic models with age-structured populations, Appl Math Comput **97**(1) 55-70 (Dec 1998), 2A51
Estimation of the driving force acting on the interface edge, Comput Assisted Mech Eng Sci **5**(2) 185-192 (1998), 2A52
Finite element method-BEM coupling in the membrane structure-air interaction problem, J Theor Appl Mech **36**(2) 513-520 (1998), 2A53
Finite elements solutions to magnetostriction - I: Harmonic modeling, Finite Elements Anal Des **30**(3) 187-196 (Aug 1998), 2A54
Finite elements solutions to magnetostriction - II: Transient and nonlinear modeling, Finite Elements Anal Des **30**(3) 197-204 (Aug 1998), 2A55
Two-level FEM and its application to the Helmholtz equation, Int J Numer Methods Eng **43**(1) 23-32 (Sep 1998), 2A56
Vibration analysis of pre-stressed pressure sensors using FEM, Finite Elements Anal Des **30**(3) 205-217 (Aug 1998), 2A57
Finite element model for acoustic radiation, J Sound Vib **215**(3) 489-498 (Aug 1998), 2A435
Stabilization of an earth dam using driven prestressed concrete piles, J Earthquake Eng **2**(2) 173-195 (Apr 1998), 2A761
Finite element method simulation on cutting process of two phase alloys, J Japan Soc Precision Eng **64**(7) 1083-1087 (Jul 1998), 2A787
Nonlinear dynamic earth DAM-foundation interaction using a BEM-FEM, Earthquake Eng Struct Dyn **27**(9) 917-936 (Sep 1998), 2A1464
Finite element application of an incremental endochronic model to flexible pavement materials, Struct Eng and Mech **6**(7) 817-826 (Oct 1998), 3A46
Unified beam FE model for extension and shear piezoelectric actuation mechanisms, J Intelligent Mat Syst Struct **8**(12) 1012-1025 (Dec 1997), 3A47
Unified constitutive theory for paper, Composite Struct **42**(1) 93-100 (May 1998), 3A48
Simplified method for calculating horizontal dynamic impedances of pile groups in layered media (Chinese), J Vib Eng **11**(3) 258-264 (Sep 1998), 3A669
Evaluation of floating ring seals for centrifugal compressors using the FEM, J Vib Acoust **121**(1) 131-136 (Jan 1999), 4A32
Finite element model for the fire-performance of GRP panels including variable thermal properties, Finite Elements Anal Des **30**(4) 313-324 (Oct 1998), 4A33
Finite element simulation for dynamic large elasto-plastic deformation in metal powder forming, Finite Elements Anal Des **30**(4) 335-352 (Oct 1998), 4A34
Finite element method for contact-impact, Finite Elements Anal Des **30**(4) 297-311 (Oct 1998), 4A521
Mode-mixity and dynamic failure mode transitions in polycarbonate, Mech Mat **30**(3) 197-216 (Nov 1998), 4A842
Tight crack modeling for the FE simulation of inspection tools in pipelines, Mat Eval **56**(10) 1223-1226 (Oct 1998), 4A863
Analysis and optimization in structural acoustics - Part I: Problem formulation and solution techiques, Struct Optim **16**(2-3) 83-95 (Oct 1998), 4A866
Analysis and optimization in structural acoustics - Part II: Exemplifications for axisymmetric structures, Struct Optim **16**(2-3) 96-107 (Oct 1998), 4A867
Dynamic characteristics and response analysis of accelerating underwater structures, Struct Eng and Mech **6**(6) 613-632 (Sep 1998), 4A1233
Finite element analysis and experimental measurements of natural eigenmodes and random responses of wooden bars used in musical instruments, Appl Acoust **56**(3) 141-156 (Mar 1999), 5A35
Finite element analysis of drawing of the bimetal sheet (Chinese), Chinese J Comput Mech **15**(4) 503-507 (Nov 1998), 5T36
Finite element dynamic equation and Neumann series method of elastic body attached to a moving base (Chinese), Chinese J Comput Mech **15**(4) 401-406 (Nov 1998), 5T37
Nonlinear seismic response of concrete gravity dams with dam-reservoir interaction, Eng Struct **21**(4) 306-315 (Apr 1999), 5A38
Semi-continuum seismic analysis of soil-building systems, Eng Struct **21**(4) 332-340 (Apr 1999), 5A1479
Finite element analysis for the least temperature rise in a hot torsion test specimen, Finite Elements Anal Des **31**(1) 1-14 (Nov 1998), 6A31
Finite element implementation of a generalized friction model: Application to an upsetting-sliding test, Finite Elements Anal Des **31**(3) 193-207 (Jan 1999), 6A32
Finite element method and variable transformations for a forward-backward heat equation, Numer Math **81**(2) 249-272 (Dec 1998), 6A33
Finite element modeling of solidification effects in mold filling, Finite Elements Anal Des **31**(2) 99-116 (Dec 1998), 6A34
Fluid-structure interaction problems, FE and BE approaches: A bibligraphy 1995-1998, Finite Elements Anal Des **31**(3) 231-240 (Jan 1999), 6A35
hp FEM for singularly perturbed problems in nonsmooth domains, Numer Methods PDE **15**(1) 63-91 (Jan 1999), 6A36
Numerical study of air-born acoustic field of stepped-plate high-power ultrasonic transducers, Acustica **84**(6) 1042-1046 (Nov-Dec 1998), 6A37
Optimal estimation of gradient damage parameters from localization phenomena in quasi-brittle materials, Mech Cohesive-Frictional Mat **4**(1) 1-16 (Jan 1999), 6A38
Three-dimensional dynamic FE analysis of shot-peening induced residual stresses, Finite Elements Anal Des **31**(3) 179-191 (Jan 1999), 6A39
Ocean acoustic models for low frequency propagation in 2D and 3D environments, Acustica **84**(6) 1031-1041 (Nov-Dec 1998), 6A294
Numerical analysis of hygro-thermal behavior and damage of concrete at high temperature, Mech Cohesive-Frictional Mat **4**(1) 37-74 (Jan 1999), 6A590
Three-dimensional behavior of geosynthetic tubes, Thin-Walled Struct **32**(4) 263-274 (Dec 1998), 6A772
Computational modeling of gradient-enhanced damage in quasi-brittle materials, Mech Cohesive-Frictional Mat **4**(1) 17-36 (Jan 1999), 6A961
Bird's eye view on FEM for structures with large stochastic variations, Comput Methods Appl Mech Eng **168**(1-4) 51-61 (Jan 1999), 7A31
Finite element interval analysis of external loads identified by displacement input with uncertainty, Comput Methods Appl Mech Eng **168**(1-4) 63-72 (Jan 1999), 7A32
Finite elements for stochastic media problems, Comput Methods Appl Mech Eng **168**(1-4) 3-17 (Jan 1999), 7A33
Higher-order failure probability calculation using nonlinear approximations, Comput Methods Appl Mech Eng **168**(1-4) 185-206 (Jan 1999), 7A34
Ingredients for a general purpose stochastic FEs implementation, Comput Methods Appl Mech Eng **168**(1-4) 19-34 (Jan 1999), 7A35
Space-variant FE reliability analysis, Comput Methods Appl Mech Eng **168**(1-4) 173-183 (Jan 1999), 7A36
Stochastic FEs as a bridge between random material microstructure and global response, Comput Methods Appl Mech Eng **168**(1-4) 35-49 (Jan 1999), 7A37
Thermoelastic study on brake pads using FE analysis, J Eng Appl Sci **45**(5) 709-719 (Oct 1998), 7A899
Thermal stress analysis of a solid rocket motor nozzle throat insert using FEM, Indian J Eng Mat Sci **5**(5) 271-277 (Oct 1998), 7A1408
Estimation of temperature in rubber-like materials using nonlinear FE analysis based on strain history, Finite Elements Anal Des **31**(4) 280-294 (Feb 1999), 8A29
Determination of compliance relationships for transversely isotropic hard surface coatings using the FEM, J Trib **121**(2) 416-418 (Apr 1999), 8T908
Comparison between modal analysis and FE modeling of a marimba bar, Acustica **85**(2) 258-266 (Mar-Apr 1999), 9A35
Faster analysis of forming problems through use of coarse mesh models for dies, Finite Elements Anal Des **32**(1) 21-35 (Mar 1999), 9A36
Finite-element modeling of non-destructive material evaluation: A bibliography (1976-1997), Model Simulation Mat Sci Eng **7**(1) 107-145 (Jan 1999), 9A37
Shape optimization of a loudspeaker diaphragm with respect to sound directivity properties, Control and Cybernetics **27**(2) 177-198 (1998), 9A38
Vibroacoustic response of a cylindrical shell structure with viscoelastic and poroelastic materials, Appl Acoust **58**(2) 131-152 (Oct 1999), 9A39
Accurate and efficient tangential force-displacement model for elastic frictional contact in particle-flow simulations, Mech Mat **31**(4) 235-269 (Apr 1999), 9A580
Measurement of residual stresses in a multi-layer explosive welded joint with successive milling technique, Strain **35**(1) 7-10 (Feb 1999), 9A650

Modeling of the torsional behavior of plasma sprayed copper, Composite Struct **44**(2-3) 129-136 (Feb-Mar 1999), 9A651
Three-dimensional evolution of interfaces under evaporation-condensation kinetics: A FE simulation, Model Simulation Mat Sci Eng **7**(1) 87-105 (Jan 1999), 9A1383
Finite-element modeling of heat transfer in carbon-carbon composites, Composites Sci Tech **59**(4) 593-607 (Mar 1999), 9A1384
Weighted residual formulation of a FE with coincident nodes to model the heat transfer at the contact interface between two distinct mediums (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 501-524 (1998), 9A1389
Design of pile-supported buried pipelines by a synthesis of FE ultimate load analyses and experimental investigations, Finite Elements Anal Des **32**(2) 97-111 (Apr 1999), 10A53
Finite element method for the Frobenius-Perron operator equation, Appl Math Comput **102**(2-3) 155-164 (Jul 1999), 10A54
Processing mechanics for flip-chip assemblies, Comput Struct **71**(4) 457-468 (May 1999), 10A55
Reproducing kernel hierarchical partition of unity - Part II: Applications, Int J Numer Methods Eng **45**(3) 289-317 (May 1999), 10A56
Structural-acoustic design at high frequency using the energy FEM, J Vib Acoust **121**(3) 295-301 (Jul 1999), 10A57
Numerical estimation of end corrections in extended-duct and perforated-duct mufflers, J Vib Acoust **121**(3) 302-308 (Jul 1999), 10A365
Effect of diffusionally accommodated interfacial sliding on the stress and deformation in copper-polyimide high density interconnects, Mech Mat **31**(5) 317-329 (May 1999), 10A660
Finite Element Analysis: Theory and Application with ANSYS (Prentice Hall, Upper Saddle River, NJ, 1999) 11R2
Fully discrete FE approaches for time-dependent Maxwell's equations, Numer Math **82**(2) 193-219 (Apr 1999), 11A51
Moving mesh method in multiblock domains with application to a combustion problem, Numer Methods PDE **15**(4) 449-467 (Jul 1999), 11A52
Finite element analysis of hydro-forming process of a toroidal shell, Int J Machine Tools Manuf **39**(9) 1439-1450 (Sep 1999), 11A430
Interparticle forces distribution in granular materials: Link with the macroscopic behavior, Mech Cohesive-Frictional Mat **4**(3) 247-279 (May 1999), 11A514
Modeling the large deformations in stratified media: The Cosserat continuum approach, Mech Cohesive-Frictional Mat **4**(3) 195-213 (May 1999), 11A515
Finite element analysis for the characteristics of temperature and stress in micro-machining considering the size effect, Int J Machine Tools Manuf **39**(9) 1507-1524 (Sep 1999), 11A723
Analysis of ductile fracture in damaged pipelines by a geometric parameter method, Eng Struct **21**(10) 924-936 (Oct 1999), 11A818
Finite element approximation for the heat transfer in incompressible Oldroyd-B flows, J Brazilian Soc Mech Sci **21**(1) 29-40 (Mar 1999), 11A1374
Finite element approximation for the heat transfer process in a plate with a nonuniform temperature-dependent source, J Brazilian Soc Mech Sci **21**(1) 41-50 (Mar 1999), 11A1411
Modeling and simulation of dynamic systems with clearance connection by FEM, Machine Dyn Prob **23**(1) 39-50 (1999), 12T42
Numerical modeling: A new tool for understanding shotcrete, Mat Struct **32**(218) 266-272 (May 1999), 12A43
Optimization of electrodynamic loudspeaker-design parameters by using a numerical calculation scheme, Acustica **85**(3) 412-419 (May-Jun 1999), 12A44
Control-structure interaction in disk drives using model superposition and FE analysis, J Info Storage Processing Syst **1**(1) 87-94 (Jan 1999), 12A447
Design techniques for spindle motors in data-storage devices, J Info Storage Processing Syst **1**(1) 105-114 (Jan 1999), 12A448

102L. Solution algorithms

Electronics packaging, Finite Elements Anal Des **30**(1-2) 1-173 (Jul 1998), 1A32
Superstable time-discrete scheme for the numerical integration of viscous constitutive equations, Mech Cohesive-Frictional Mat **3**(3) 229-256 (Jul 1998), 1A37
Efficient iterative solution of unconstrained FE analyses, Comput Methods Appl Mech Eng **160**(1-2) 101-114 (Jul 1998), 1A39
Least-squares approach for uniform strain triangular and tetrahedral FEs, Int J Numer Methods Eng **42**(7) 1181-1197 (Aug 1998), 1A40
Multi-step method for matrix condensation of FE models, J Sound Vib **214**(5) 965-971 (Jul 1998), 1T41
New moving mesh algorithm for the FE solution of variational problems, SIAM J Numer Anal **35**(4) 1416-1438 (May 1998), 1A42
Object-oriented approach to fully interactive FE software, Adv Eng Software **29**(2) 139-149 (Mar 1998), 1A43
A posteriori error estimation in large-strain elasticity using equilibrated local Neumann problems, Comput Methods Appl Mech Eng **161**(1-2) 77-101 (Aug 1998), 1A44
Selective regional refinement procedure for adaptive FE analysis, Comput Struct **68**(4) 325-341 (Aug 1998), 1A45
Simple error indicator for adaptive BEM, Comput Struct **68**(5) 433-443 (Sep 1998), 1A46
Subcycling first- and second-order generalizations of the trapezoidal rule, Int J Numer Methods Eng **42**(6) 1091-1119 (Jul 1998), 1A47
ALE stress update for transient and quasistatic processes, Int J Numer Methods Eng **43**(2) 241-262 (Sep 1998), 2A58
Combining subset selection and parameter constraints in model updating, J Vib Acoust **120**(4) 854-859 (Oct 1998), 2A59
Experimental determination of local structural stiffness by disassembly of measured flexibility matrices, J Vib Acoust **120**(4) 949-957 (Oct 1998), 2A60
Fourth National Symposium on large-scale analysis and design on high-performance computers and workstations held Oct 15-17, 1997, Adv Eng Software **29**(3-6) 179-492 (Apr-Jul 1998), 2T61
Multiple-criterion method for determining structural damage, AIAA J **36**(8) 1494-1501 (Aug 1998), 2A62
Parallel algebraic multigrid solver for problems in solid mechanics discretized by FEs, Comput Struct **69**(1) 129-137 (Oct 1998), 2A63
Perturbation method for condensation of eigenproblems, AIAA J **36**(9) 1757-1760 (Sep 1998), 2T64
Solving boundary-value problems using hp-version FEs in time, Int J Numer Methods Eng **43**(3) 425-440 (Oct 1998), 2A65
Treatment of shell normals in FE analysis, Finite Elements Anal Des **30**(3) 235-242 (Aug 1998), 2A66
V-cycle Galerkin-multigrid methods for nonconforming methods for nonsymmetric and indefinite problems, Appl Numer Math **28**(1) 17-35 (Sep 1998), 2A67
Unity check method for structural damage detection, J Spacecraft Rockets **35**(4) 577-579 (Jul-Aug 1998), 2T470
Advances in Computational Mechanics with High Performance Computing (Civil-Comp, Edinburgh, UK, 1998) 3N3
Advances in Computational Structural Mechanics (Civil-Comp, Edinburgh, UK, 1998) 3N4
Adaptable FE modeling kernel, Comput Struct **69**(3) 399-409 (Nov 1998), 3A49
Adaptive strategy for elliptic problems including a posteriori controlled boundary approximation, Math Comput **67**(224) 1361-1382 (Oct 1998), 3A50
Automatic adaptive FE mesh generation over rational B-spline surfaces, Comput Struct **69**(5) 577-608 (Dec 1998), 3A51
Comment on "Improvement in model reduction schemes using the system equivalent reduction expansion process", AIAA J **36**(10) 1941 (Oct 1998), 3T52
Comparison of iterative multi-level FE solvers, Comput Struct **69**(5) 655-670 (Dec 1998), 3A53
Overcoming corner singularities using multigrid methods, SIAM J Numer Anal **35**(5) 1883-1892 (Oct 1998), 3A54
Reply to Z-Q Qu and ZF Fu, AIAA J **36**(10) 1941-1942 (Oct 1998), 3T55
Updating large FE models in structural dynamics, AIAA J **36**(10) 1861-1868 (Oct 1998), 3A56
Explanation and elimination of shear locking and membrane locking with field consistence approach, Comput Methods Appl Mech Eng **162**(1-4) 249-269 (Aug 1998), 3A602
Generalized conservation checks in FE analysis, Int J Numer Methods Eng **43**(7) 1295-1307 (Dec 1998), 4A35
Incorporation of linear multipoint constraints in substructure based iterative solvers - Part 1: A numerically scalable algorithm, Int J Numer Methods Eng **43**(6) 997-1016 (Nov 1998), 4A36
Inverse iteration for large defective eigensystems, J Vib and Control **4**(6) 697-716 (Nov 1998), 4A37
Multigrid methods for Morley element on nonnested meshes, J Comput Math **16**(5) 385-394 (Sep 1998), 4A38
Using different recovery procedures for the construction of smoothed stress in FEM, Int J Numer Methods Eng **43**(7) 1223-1252 (Dec 1998), 4A39
Discussion on some problems in using arc-length-type methods and their improvement (Chinese), Chinese J Comput Mech **15**(4) 414-422 (Nov 1998), 5T39
Improving explicit time integration by modal truncation techniques, Earthquake Eng Struct Dyn **27**(12) 1541-1557 (Dec 1998), 5A40
Coarsening of mesh models for representation of rigid objects in FE analysis, Int J Numer Methods Eng **44**(3) 313-326 (Jan 1999), 6A40
Error estimates for 3D narrow FEs, Math Comput **68**(225) 187-199 (Jan 1999), 6A41
Geometric evaluation of FE surface meshes, Finite Elements Anal Des **31**(1) 33-53 (15v 1998), 6A42
Hierarchical universal matrices for triangular FEs with varying material properties and curved boundaries, Int J Numer Methods Eng **44**(2) 215-228 (Jan 1999), 6A43
Node-based dynamic adaptive grid with quadrilateral and hexahedral elements, Adv Eng Software **30**(1) 31-41 (Jan 1999), 6A44
Solution of eigenvalue problems for non-classically damped systems with multiple frequencies, J Sound Vib **219**(2) 207-222 (Jan 1999), 6A137
Evaluation of fracture mechanics quarter-point displacement techniques used for computing stress intensity factors, Eng Struct **21**(5) 406-415 (May 1999), 6A892
Staggered grids hybrid-dual spectral element method for second-order elliptic problems: Application to high-order time splitting methods for Navier-Stokes equations, Comput Methods Appl Mech Eng **166**(3-4) 183-199 (Nov 1998), 6A1207
Numerical Linear Algebra for High-Performance Computers (SIAM, PA, 1998) 7R1
Optimization Concepts and Applications in Engineering (Prentice Hall, Upper Saddle River, NJ, 1999) 7N3
Approach for evaluating power transfer coefficient for spot-welded joints in an energy FE formulation, J Sound Vib **220**(1) 135-154 (Feb 1999), 7A38
Computationally efficient algorithm for the solution of eigenproblems for large structures with non-proportional damping using Lanczos method, Earthquake Eng Struct Dyn **28**(2) 157-172 (Feb 1999), 7A39
Neural network graph partitioning procedure for grid-based domain decomposition, Int J Numer Methods Eng **44**(5) 593-613 (Feb 1999), 7A40
New object-oriented FE analysis program architecture, Comput Struct **70**(1) 63-75 (Jan 1999), 7A41
Nonconforming FE approximations to the unilateral problem, J Comput Math **17**(1) 15-24 (Jan 1999), 7A42
Parallel algorithm for nonlinear dynamic FE analysis: Methodology, implementation, and applications, Comput Model Simul in Eng **3**(4) 287-298 (Nov 1998), 7A43
Parallel solution methods for stochastic FE analysis using Monte Carlo simulation, Comput Methods Appl Mech Eng **168**(1-4) 305-320 (Jan 1999), 7A44
Schur complement preconditioners for anisotropic problems, IMA J Numer Anal **19**(1) 1-18 (Jan 1999), 7A45
Simple and efficient extension of a class of substructure based preconditioners to heterogeneous structural mechanics problems, Int J Numer Methods Eng **44**(4) 489-516 (Feb 1999), 7A46
Spectral bisection of adaptive FE meshes for parallel processing, Comput Struct **70**(3) 315-323 (Feb 1999), 7A47
Coding error eliminating procedure for verifying FE programs with forced and natural boundary conditions, Int J Numer Methods Eng **44**(9) 1187-1204 (Mar 1999), 8A30
Filling space with tetrahedra, Int J Numer Methods Eng **44**(10) 1383-1395 (Apr 1999), 8A31
Hybrid graph-neural method for domain decomposition, Comput Struct **70**(6) 667-674 (Mar 1999), 8A32
Initial-interval driven biasing of nodal concentration along a fixed curve, Comput Struct **70**(6) 691-698 (Mar 1999), 8A33
Locations of optimal stress points in higher-order elements, Commun Numer Methods Eng **15**(2) 127-136 (Feb 1999), 8A34
Treatment of control constraints in FE solution of optimal control problems, J Guidance Control Dyn **22**(2) 358-360 (Mar-Apr 1999), 8T35
Q-Morph: An indirect approach to advancing front quad meshing, Int J Numer Methods Eng **44**(9) 1317-1340 (Mar 1999), 8A48
Surface triangulation over intersecting geometries, Int J Numer Methods Eng **44**(9) 1359-1376 (Mar 1999), 8A49
High Performance Computing for Computational Mechanics (Saxe-Coburg Publ, Edinburgh, UK, 1998) 9N4
Computer modeling and simulation in engineering, Comput Model Simul in Eng **4**(1) 4-69 (Feb 1999), 9A14
Computation of interface stresses by FEs for sandwich materials, Composite Struct **44**(4) 289-295 (Apr 1999), 9A24
Automatic adaptive FE mesh generation over arbitrary 2D domain using advancing front technique, Comput Struct **71**(1) 9-34 (Apr 1999), 9A40
Class of data structures and object-oriented implementation for FEMs on distributed memory systems, Comput Methods Appl Mech Eng **171**(1-2) 109-121 (Mar 1999), 9A41
Interpretation of a linear solver based on Davidson's method, AIAA J **37**(4) 515-517 (Apr 1999), 9T42
New stabilization technique for FEs in nonlinear elasticity, Int J Numer Methods Eng **44**(11) 1617-1652 (Apr 1999), 9A43
Finite element discretization by minimization of elastic strain energy method, Finite Elements Anal Des **32**(2) 63-70 (Apr 1999), 10A37
Exact reduction and eigensolution for the Galerkin element method, Comput Struct **71**(4) 413-422 (May 1999), 10A58
Full 3D FE analysis using adaptive refinement and PCG solver with back interpolation, Comput Methods Appl Mech Eng **170**(1-2) 39-64 (Feb 1999), 10A59
Iterative perturbation method for saddle point problems, IMA J Numer Anal **19**(2) 215-231 (Apr 1999), 10A60
Space-time FEM for elasto-plastic shock dynamics, J Sound Vib **222**(1) 65-84 (Apr 1999), 10A61
Handbook of Grid Generation (CRC Press, Boca Raton FL, 1998) 11N8
Nonlinear transient response and second-order sensitivity using time FEM, AIAA J **37**(5) 613-622 (May 1999), 11A22
Better consistency for low-order stabilized FEMs, Comput Methods Appl Mech Eng **174**(1-2) 153-170 (May 1999), 11A53
Degenerate polynomial forms, Commun Numer Methods Eng **15**(5) 305-308 (May 1999), 11A54
Efficient storage scheme for iterative solution of FE analysis equations, J Struct Eng (India) **25**(4) 261-265 (Jan 1999), 11T55
Element stress recovery technique with equilibrium constraints for superconvergent boundary stress extraction, AIAA J **37**(5) 623-628 (May 1999), 11A56
Hierarchical tree-based FE mesh generation, Int J Numer Methods Eng **45**(4) 447-471 (Jun 1999), 11A57
New approach for time stepping for solving transfer problems, Commun Numer Methods Eng **15**(5) 325-334 (May 1999), 11A58
Ordering elements for a frontal solver, Commun Numer Methods Eng **15**(5) 309-323 (May 1999), 11A59
Responses of blast loading by complex time step method, J Sound Vib **223**(1) 23-48 (May 1999), 11A60
Development and applications of the helically symmetric boundary conditions in FE analysis, Commun Numer Methods Eng **15**(6) 435-443 (Jun 1999), 12A45
Symbolic computation of stiffness matrices for quadratic triangular elements, Commun Numer Methods Eng **15**(6) 413-421 (Jun 1999), 12A46

102N. Element development

Electronics packaging, Finite Elements Anal Des **30**(1-2) 1-173 (Jul 1998), 1A32
21-node hexahedral isoparametric element for analysis of contact problems, Commun Numer Methods Eng **14**(7) 681-692 (Jul 1998), 1A48
Geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections, Comput Methods Appl Mech Eng **160**(3-4) 383-400 (Jul 1998), 1A49
Jacobian matrix based 3D FE mesh optimization (Chinese), J Shanghai Jiaotong Univ **32**(5) 142-144 (May 1998), 1A50
Simple cubic linear element for static and free vibration analyses of curved beams, Comput Struct **68**(5) 473-489 (Sep 1998), 1A51
Symmetric-iterative FE and BE coupling method for solving axisymmetric problems, Int J Pressure Vessels Piping **75**(2) 155-159 (Feb 1998), 1A52
Application of the absolute nodal coordinate formulation to multibody system dynamics, J Sound Vib **214**(5) 833-851 (Jul 1998), 1A98
Exact thick arch FE, Comput Struct **68**(4) 369-379 (Aug 1998), 1A670
New one-point quadrature, general nonlinear quadrilateral shell element with physical stabilization, Int J Numer Methods Eng **42**(7) 1307-1338 (Aug 1998), 1A702
Perspective on FEs for shell analysis, Finite Elements Anal Des **30**(3) 175-186 (Aug 1998), 2A35
High-precision triangular element with rotational dof (Chinese), Chinese J Comput Mech **15**(3) 293-300 (Aug 1998), 2T68
Multinode FE based on boundary integral equations, Int J Numer Methods Eng **43**(3) 533-548 (Oct 1998), 2A69
Quadrilateral Reissner-Mindlin plate element (Chinese), Chinese J Comput Mech **15**(3) 347-352 (Aug 1998), 2T70
Refined RC beam element including bond-slip relationship for the analysis of continuous beams, Comput Struct **69**(1) 53-62 (Oct 1998), 2A692
Serendipity FEs for the analysis of laminated plates, Comput Struct **69**(1) 37-51 (Oct 1998), 2A713
Weighted element patch based superconvergent stress extraction strategy, Commun Numer Methods Eng **14**(8) 731-749 (Aug 1998), 3A57
Multilayered mixed beam element in gradient plasticity for the analysis of localized failure modes, Mech Cohesive-Frictional Mat **3**(4) 305-322 (Oct 1998), 4A40

New higher-order hybrid-mixed curved beam element, Int J Numer Methods Eng **43**(5) 925-940 (Nov 1998), 4A41
p-version hybrid-mixed FEM, Finite Elements Anal Des **30**(4) 325-333 (Oct 1998), 4A42
Shear-flexible element with warping for thin-walled open beams, Int J Numer Methods Eng **43**(7) 1173-1191 (Dec 1998), 4A637
Four-node solid shell element formulation with assumed strain, Int J Numer Methods Eng **43**(5) 909-924 (Nov 1998), 4A662
Consistent dynamic FE formulation for a pipe using Euler parameters, Shock Vib **5**(2) 111-117 (1998), 5A41
Formulation of geometrically nonlinear 3D-Rebar-elements using the enhanced assumed strain method, Eng Struct **21**(3) 209-218 (Mar 1999), 5A42
Refined 8-20 node element for vibration analysis and the discussion of several approaches for the construction of mass matrix (Chinese), Chinese J Comput Mech **15**(4) 465-470 (Nov 1998), 5T43
Simple method of stiffness matrix formulation based on single element test, Struct Eng and Mech **7**(2) 203-216 (Feb 1999), 6A16
Composite element method for vibration analysis of structure - Part I: Principle and C^0 element (BAR), J Sound Vib **218**(4) 619-658 (Dec 1998), 6A45
Composite element method for vibration analysis of structure - Part II: C^1 element (beam), J Sound Vib **218**(4) 659-696 (Dec 1998), 6A46
Explicit eight-noded quadrilateral elements, Finite Elements Anal Des **31**(3) 209-222 (Jan 1999), 6A47
Finite element model with continuous transverse shear stress for composite laminates in cylindrical bending, Finite Elements Anal Des **31**(2) 153-164 (Dec 1998), 6A48
Further study of hybrid strain-based three-node flat triangular shell elements, Finite Elements Anal Des **31**(2) 135-152 (Dec 1998), 6A49
New enhanced strain elements for incompressible problems, Int J Numer Methods Eng **44**(2) 229-248 (Jan 1999), 6A50
New FE for global modeling of delaminations in laminated beams, Finite Elements Anal Des **31**(2) 165-177 (Dec 1998), 6A51
Two-noded locking-free shear flexible curved beam element, Int J Numer Methods Eng **44**(2) 265-280 (Jan 1999), 6A644
Improving an accurate thin plate element, Comput Methods Appl Mech Eng **166**(3-4) 341-348 (Nov 1998), 6A681
Formulation of a super-element for the dynamic problem of a cracked plate, Commun Numer Methods Eng **14**(12) 1143-1154 (Dec 1998), 6A970
Selected papers presented at the Seventh International Conference on Computing in Civil and Building Engineering, Struct Eng and Mech **6**(8) 841-969 (Dec 1998), 6T1048
Mixed state Hamilton elements (Chinese), J Dalian Univ Tech **39**(1) 12-16 (Jan 1999), 7A48
Quasi-conforming axisymmetric three node degenerated shell element (Chinese), J Shanghai Jiaotong Univ **32**(11) 98-101 (Nov 1998), 7A49
Systematic construction of B-bar functions for linear and nonlinear mixed-enhanced FEs for plane elasticity problems, Int J Numer Methods Eng **44**(5) 615-639 (Feb 1999), 7A50
Time dependent adaptive FEM, J Brazilian Soc Mech Sci **20**(4) 587-595 (Dec 1998), 7A51
Two new simple FEs for the static and dynamic analysis of composite plates, J Eng Appl Sci **45**(5) 741-757 (Oct 1998), 7A145
New FE for treating plane thermomechanical heterogeneous solids, Int J Numer Methods Eng **44**(4) 567-585 (Feb 1999), 7A1427
All quadrilateral FE mesh generation of 3D-surfaces in CAD and method of locally adding mesh density (Chinese), J Dalian Univ Tech **38**(6) 738-741 (Nov 1998), 8A36
Class of Wilson arbitrary quadrilateral elements for an axisymmetric problem, Appl Math Mech **19**(12) 1211-1216 (Dec 1998), 8A37
Deteriorated geometrical stiffness for higher order FEs with application to panel flutter, Nonlinear Dyn **18**(1) 89-103 (Jan 1999), 8A38
Fuzzy modal FE analysis of structures with imprecise material properties, J Sound Vib **220**(2) 353-364 (Feb 1999), 8A39
Hybrid stress FE formulation based on additional internal displacements - Application of microscopic geometric perturbation and extension to linear dynamics, Finite Elements Anal Des **31**(4) 241-254 (Feb 1999), 8A40
Novel four-node quadrilateral smoothing element for stress enhancement and error estimation, Int J Numer Methods Eng **44**(10) 1527-1543 (Apr 1999), 8A41
Thermoviscoelastic analysis of composite structures using a triangular flat shell element, AIAA J **37**(2) 238-247 (Feb 1999), 8A42
New dynamic FE formulation for lateral free vibrations of Euler-Bernoulli spinning beams using trigonometric shape functions, J Sound Vib **220**(4) 601-624 (Mar 1999), 8A130
Natural frequencies of transverse vibrations of non-uniform circular and annular plates, J Sound Vib **220**(2) 225-249 (Feb 1999), 8A151
Discrete layer beam FE for the dynamic analysis of composite sandwich beams with integral damping layers, Comput Struct **70**(6) 647-666 (Mar 1999), 8A179
Layer-wise triangle for analysis of laminated composite plates and shells, Comput Struct **70**(6) 635-646 (Mar 1999), 8A645
Mixed-enhanced FE for the analysis of laminated composite plates, Int J Numer Methods Eng **44**(10) 1481-1504 (Apr 1999), 8A646
Axisymmetric membrane element with bending stiffness for static implicit sheet metal forming simulation, J Appl Mech **66**(1) 153-164 (Mar 1999), 8A695
New shear actuated smart structure beam FE, AIAA J **37**(3) 378-383 (Mar 1999), 8A852
Fictitious domain method for Dirichlet problems using mixed FEs, Appl Math Lett **12**(4) 117-120 (May 1999), 9A15
Parametric cubic element with tension properties, SIAM J Numer Anal **36**(2) 607-628 (Jan 1999), 9A44
Suitable low-order, tetrahedral FE for solids, Int J Numer Methods Eng **44**(12) 1785-1805 (Apr 1999), 9A45
Transition element for uniform strain hexahedral and tetrahedral FEs, Int J Numer Methods Eng **44**(12) 1933-1950 (Apr 1999), 9A46
Analytical response sensitivity computation using hybrid FEs, Comput Struct **71**(5) 525-534 (Jun 1999), 10A62
Extension of field consistence approach into developing plane stress elements, Comput Methods Appl Mech Eng **173**(1-2) 111-134 (Apr 1999), 10A63
Selected papers presented at the second China-Australia symposium on computational mechanics, Struct Eng and Mech 7(6) 533-614 (Jun 1999), 10T64
Three-dimensional frictional contact element whose stiffness matrix is symmetric, J Appl Mech **66**(2) 460-467 (Jun 1999), 10A65
Development of irregular elements for differential quadrature element method steady-state heat conduction analysis, Comput Methods Appl Mech Eng **170**(1-2) 1-14 (Feb 1999), 10A1347
Defect-free 4-node flat shell element: NMS-4F element, Struct Eng and Mech **8**(2) 207-231 (Aug 1999), 11A61
Eight-node field-consistent hexahedron element in dynamic problems, Struct Eng and Mech **8**(1) 19-26 (Jul 1999), 11A62
High accuracy analysis of the Wilson element, J Comput Math **17**(2) 113-124 (Mar 1999), 11A63
New plate FE using integral representation interpolation, Eng Anal Boundary Elements **23**(7) 549-554 (Jul 1999), 11A587
Quadratic assumed natural strain curved triangular shell element, Comput Methods Appl Mech Eng **174**(1-2) 57-71 (May 1999), 11A589
Bimaterial interface hybrid element for piezoelectric laminated analysis, J Strain Anal Eng Des **34**(2) 97-106 (Mar 1999), 11A609
Automatically dividing way of mesh for random particle model of concrete (Chinese), J Dalian Univ Tech **39**(3) 445-450 (May 1999), 12A47
Higher-order triangular and tetrahedral FEs with mass lumping for solving the wave equation, J Eng Math **35**(4) 405-426 (May 1999), 12A48
Stiffened plate element based on Kirchoff thin plate theory, Marine Tech Trans **9** 199-218 (1998), 12A49

104. FINITE DIFFERENCE METHODS

104A. General theory

High-order-accurate discretization of a second-order equation with discontinuous coefficients, Appl Math Model **22**(1-2) 69-79 (Jan-Feb 1998), 1A53
Starting algorithms for implicit Runge-Kutta-Nystrom methods, Appl Numer Math **27**(3) 233-251 (Jul 1998), 1A54
Finite differences on triangular grids, Numer Methods PDE **14**(5) 567-579 (Sep 1998), 2A71
High-order zero-dissipative Runge-Kutta-Nystrom methods, J Comput Appl Math **95**(1-2) 157-161 (Aug 1998), 2A72
Symbolic derivation of finite difference approximations for the 3D Poisson equation, Numer Methods PDE **14**(5) 593-606 (Sep 1998), 2A73
A-BDF: A generalization of the backward differentiation formulae, SIAM J Numer Anal **35**(5) 1917-1938 (Oct 1998), 3A58
Integrating finite rotations, Comput Methods Appl Mech Eng **164**(3-4) 307-331 (Oct 1998), 4A43
Selected papers from the Eighth Conference on the Numerical Treatment of Differential Equations: September 1-5 1997, Alexisbad, Germany, Appl Numer Math **28**(2-4) 95-491 (Oct 1998), 4T44
Convergence rate of finite difference schemes in the presence of shocks, SIAM J Numer Anal **35**(6) 2464-2485 (Dec 1998), 5A44
Proceedings of the NSF-CBMS regional conference on Numerical Analysis of Hamiltonian Differential Equations, Appl Numer Math **29**(1) 3-165 (Jan 1999), 5A45
Characteristic domain decomposition and space-time local refinement method for first-order linear hyperbolic equations with interfaces, Numer Methods PDE **15**(1) 1-28 (Jan 1999), 6A52
Continuous approximation with embedded Runge-Kutta-Nystrom methods, Appl Numer Math **29**(2) 171-188 (Feb 1999), 6A53
Continuous variable stepsize explicit pseudo two-step RK methods, J Comput Appl Math **101**(1-2) 105-116 (Jan 1999), 6A54
Preconditioning the matrix exponential operator with applications, J Sci Comput **13**(3) 275-302 (Sep 1998), 6A55
Error bounds of finite difference schemes for multidimensional scalar conservation laws with source terms, IMA J Numer Anal **19**(1) 77-89 (Jan 1999), 7A52
New efficient second derivative multistep methods for stiff systems, Appl Math Model **23**(4) 279-288 (Apr 1999), 7A53
New finite-difference method with minimal phase lag for the numerical solution of differential equations with engineering applications, Adv Eng Software **30**(2) 103-107 (Feb 1999), 7A54
Modelisation Numerique en Science et Genie des Materiaux (French) (Presses Polytech et Univ Romandes, Lausanne, 1998) 8R3
Wavewise entropy inequality for high resolution schemes - II: Fully discrete MUSCL schemes with exact evolution in small time, SIAM J Numer Anal **36**(1) 1-31 (Jan 1999), 8A43
Quasi-randomized Runge-Kutta method, Math Comput **68**(226) 651-659 (Apr 1999), 9A47
Capturing material interfaces, Comput Methods Appl Mech Eng **170**(1-2) 15-25 (Feb 1999), 10A66
Optimal explicit unconditionally stable box scheme, Matematyka Stosowana **40** 31-39 (1997), 10A67
Qualitative properties of modified equations, IMA J Numer Anal **19**(2) 169-190 (Apr 1999), 10A68
Superconvergent error estimates for a class of discretization methods for a coupled first-order system with discontinuous coefficients, Numer Methods PDE **15**(3) 267-283 (May 1999), 10A69
Numerical Partial Differential Equations: Conservation Laws and Elliptic Equations (Springer-Verlag, New York, 1999) 11R3
Method of modified equations - I: Asymptotic analysis of the Euler forward difference method, Appl Math Comput **103**(2-3) 111-139 (Aug 1999), 11A64
Method of modified equations - II: Numerical techniques based on the equivalent equation for the Euler forward difference method, Appl Math Comput **103**(2-3) 141-177 (Aug 1999), 11T65
Method of modified equations - III: Numerical techniques based on the second equivalent equation for the Euler forward difference method, Appl Math Comput **103**(2-3) 179-212 (Aug 1999), 11T66
Method of modified equations - IV: Numerical techniques based on the modified equation for the Euler forward difference method, Appl Math Comput **103**(2-3) 213-240 (Aug 1999), 11T67
Method of modified equations - V: Asymptotic analysis of and direct-correction and asymptotic successive-correction techniques for the implicit midpoint method, Appl Math Comput **103**(2-3) 241-285 (Aug 1999), 11T68
Numerical differentiation, dimensionality can be a blessing, Math Comput **68**(227) 1121-1141 (Jul 1999), 12A50
Orthogonal decomposition theorems for mimetic finite difference methods, SIAM J Numer Anal **36**(3) 788-818 (Mar-May 1999), 12A51
Overlapping grid method for elliptic boundary value problems, SIAM J Numer Anal **36**(3) 819-852 (Mar-May 1999), 12A52
Stability and regularization of a discrete approximation to the Cauchy problem for Laplace's equation, SIAM J Numer Anal **36**(3) 890-905 (Mar-May 1999), 12A53
Suppression of numerically induced chaos with nonstandard finite difference schemes, J Comput Appl Math **106**(2) 317-324 (Jun 1999), 12A54

104B. Solid mechanics applications

Differential cubature method for static solutions of arbitrarily shaped thick plates, Int J Solids Struct **35**(28-29) 3655-3674 (Oct 1998), 1A699
Three-dimensional finite-difference modeling of the San Andreas Fault: Source parameterization and ground-motion levels, Bull Seismol Soc Am **88**(4) 881-897 (Aug 1998), 2A1460
Explicit finite-difference procedures for elastodynamic analysis of layered media, Arch Appl Mech **68**(7-8) 489-500 (Sep 1998), 3A59
Alternative finite difference method for post-processing thermoelastic data using compatibility, J Strain Anal Eng Des **33**(6) 437-447 (Nov 1998), 7A55
Multiple crack problems for torsion thin-walled cylinder, Int J Pressure Vessels Piping **76**(1) 49-53 (Jan 1999), 7A732
Contact problem for orthotropic foundation slabs with consideration of deformation peculiarities of spatial and nonhomogeneous bases, Stud Geotech Mech **20**(1-2) 63-104 (1998), 12A55

104C. Fluid mechanics applications

Computational Technologies for Fluid/Thermal/Structural/Chemical Systems with Industrial Applications - Volume II (ASME, New York, 1998) 1N2
Computational Technologies for Fluid/Thermal/Structural/Chemical Systems with Industrial Applications - Volume I (ASME, New York, 1998) 1N24
Turbulence Modeling for CFD, Second Edition (DCW Indust, La Canada CA, 1998) 1N27
Orthogonal grid generation for Navier-Stokes computations, Int J Numer Methods Fluids **28**(2) 215-224 (Aug 1998), 1A55
Assessment of geometric multilevel convergence robustness and a wall distance method for flows with multiple internal boundaries, Appl Math Model **22**(4-5) 293-311 (Apr-May 1998), 1A1172
Computational Fluid Dynamics (AIAA, Reston, VA, 1997) 2N3
Inverse Design and Optimization Methods (AIAA, Reston, VA, 1997) 2N26
Computational fluid dynamics in Russia, Int J Comput Fluid Dyn **10**(2) 91-182 (1998), 2T40
Computing flows on general 2D nonsmooth staggered grids, J Eng Math **34**(1-2) 21-44 (Jul 1998), 2A74
Low-diffusion flux-splitting methods for flows at all speeds, AIAA J **36**(9) 1610-1617 (Sep 1998), 2A75
New finite difference scheme for 2D flows at large Re, J Hydrodyn **10**(2) 60-73 (1998), 2T76
Numerical simulation of a thermoacoustic refrigerator - Part II: Stratified flow around the stack, J Comput Phys **144**(2) 299-324 (Aug 1998), 2A77
Spectro-consistent discretization of Navier-Stokes: A challenge to RANS and LES, J Eng Math **34**(1-2) 163-179 (Jul 1998), 2A78
Unconditional stability, monotonicity and accuracy of the linear exponential interpolation function for the Burgers equation, Comput Fluids **27**(8) 963-983 (Nov 1998), 2A79
Data-parallel line relaxation method for the Navier-Stokes equations, AIAA J **36**(9) 1603-1609 (Sep 1998), 2A81
Fast Poisson solver for the finite difference solution of the incompressible Navier-Stokes equations, SIAM J Sci Comput **19**(5) 1606-1624 (Sep 1998), 2T1105
Two-dimensional incompressible Navier-Stokes calculations in complex-shaped moving domains, J Eng Math **34**(1-2) 57-73 (Jul 1998), 2A1111
High-order finite-difference schemes for numerical simulation of hypersonic boundary-layer transition, J Comput Phys **144**(2) 662-709 (Aug 1998), 2T1120
Essentially nonoscillatory Euler solutions on unstructured meshes using extrapolation, AIAA J **36**(8) 1413-1416 (Aug 1998), 2A1129
Pressure-based compressible calculation method utilizing total variation diminishing schemes, AIAA J **36**(9) 1652-1657 (Sep 1998), 2A1131
Artificial dissipation schemes for viscous airfoil computations, AIAA J **36**(9) 1732-1734 (Sep 1998), 2T1223
Riemann Solvers and Numerical Methods for Fluid Dynamics: A Practical Introduction (Springer-Verlag, New York, 1997) 3R24
Comparison of implicit approximate factorization algorithms in the solution of the Navier-Stokes equations (Spanish), J Brazilian Soc Mech Sci **20**(3) 353-380 (Sep 1998), 4A45
Evaluation of some interpolation schemes for fluid flow calculations using finite volumes (Spanish), J Brazilian Soc Mech Sci **20**(3) 340-352 (Sep 1998), 4A46
Optimization of finite difference schemes for wave equations (Chinese), J Shanghai Jiaotong Univ **32**(7) 49-53 (Jul 1998), 4A47
Robust high-resolution split-type compact FD scheme for spatial direct numerical simulation of boundary-layer transition, Appl Sci Res **59**(4) 353-377 (1997), 4A48
Parallel DNS with local grid refinement, Appl Sci Res **59**(4) 379-394 (1997), 4A50
Non-Reflective Boundary Conditions and sound source modeling in computational aeroacoustics (Chinese), J Shanghai Jiaotong Univ **32**(7) 36-39 (Jul 1998), 4A337
Higher-order unstructured domain decomposition method for Navier-Stokes equations, Comput Fluids **28**(1) 87-120 (Jan 1999), 4A1039
Numerical analysis of the flow characteristics in a helical inlet port (Chinese), J Huazhong Univ Sci Tech **26**(7) 36-38 (Jul 1998), 4A1159

Numerical simulation of a turbulent flow in a channel with surface mounted cubes, Appl Sci Res **59**(4) 395-408 (1997), 4A1160
Implicit finite volume approach of the k-ε turbulence model on unstructured grids, Z Angew Math Mech **78**(11) 743-757 (1987), 4A1226
Computational fluid dynamics in minerals and metals processing and power generation - II, Appl Math Model **22**(12) 965-1080 (Dec 1998), 5A46
Computational fluid dynamics in minerals and metals processing and power generation - I, Appl Math Model **22**(11) 843-962 (Nov 1998), 5A47
Designing an efficient solution strategy for fluid flows: Stable high-order central finite difference schemes on composite adaptive grids with sharp shock resolution, J Comput Phys **147**(2) 293-317 (Dec 1998), 5T48
Optimized upwind dispersion-relation-preserving finite difference scheme for computational aeroacoustics, AIAA J **36**(11) 2146-2148 (Nov 1998), 5T51
Fundamentals of Computational Fluid Dynamics (Hermosa Publ, Albuquerque, 1998) 6R1
MILU-CG method and the numerical study on the flow around a rotating circular cylinder, Appl Math Mech **19**(8) 783-792 (Aug 1998), 6A56
Finite difference method for dispersive linear waves with applications to simulating microwave pulses in water, J Comput Phys **148**(1) 199-226 (Jan 1999), 6A256
Study on the method to increase the calculating velocity of casting fluid field (Chinese), J Huazhong Univ Sci Tech **26**(10) 48-50 (Oct 1998), 6A824
Boundary and interface conditions for high-order finite-difference methods applied to the Euler and Navier-Stokes equations, J Comput Phys **148**(2) 621-645 (Jan 1999), 6T1201
Navier-Stokes analysis of the flow about a flap edge, J Aircraft **35**(6) 833-838 (Nov-Dec 1998), 6A1301
Comparisons of compact and classical finite difference solutions of stiff problems on nonuniform grids, Comput Fluids **28**(3) 361-384 (Mar 1999), 7A56
Efficient time integration of Navier-Stokes equations, Comput Fluids **28**(2) 243-263 (Feb 1999), 7A57
Simulation model for a loop-scavenged two-stroke engine (Chinese), J Xi'an Jiaotong Univ **33**(1) 69-72 (1999), 7A58
Numerical simulation on water waves by NS equations (Chinese), J Shanghai Jiaotong Univ **32**(11) 1-7 (Nov 1998), 7A235
Numerical study on the vortex motion patterns around a rotating circular cylinder and their critical characters, Int J Numer Methods Fluids **29**(2) 229-248 (Jan 1999), 7A973
Compact finite difference schemes on non-uniform meshes: Application to direct numerical simulations of compressible flows, Int J Numer Methods Fluids **29**(2) 159-191 (Jan 1999), 7A1005
Three-dimensional prediction method for thermal diffusion, China Ocean Eng **12**(3) 309-321 (1998), 7A1104
High-order finite-difference method for incompressible flows using collocated grid system, JSME Int J Ser B **41**(4) 830-839 (Nov 1998), 8T44
Fully nonlinear free-surface simulations by a 3D viscous numerical wave tank, Int J Numer Methods Fluids **29**(6) 685-703 (Mar 1999), 8A254
Multiblock approach for calculating incompressible fluid flows on unstructured grids, AIAA J **37**(2) 169-176 (Feb 1999), 8A1046
Third-order; modified-flux-approach-type essentially nonoscillating schemes for wave equations, AIAA J **37**(3) 384-386 (Mar 1999), 8T1068
Numerical solution of the transient two-phase flow in rigid pipelines, Int J Numer Methods Fluids **29**(5) 501-514 (Mar 1999), 8A1340
High-order WENO finite difference scheme for the equations of ideal magnetohydrodynamics, J Comput Phys **150**(2) 561-594 (Apr 1999), 9T1252
Kinetical-consistent algorithms for simulation of reactive flows, SIAM J Sci Comput **20**(3) 826-843 (Oct 1998), 10T70
29th Computational Fluid Dynamics (VKI Fluid Dyn, Rhode-St-Genese, Belgium, 1998) 11N4
Computational Fluid Dynamics Review 1998 (World Sci Publ, Singapore, 1998) 11N6
Frontiers of Computational Fluid Dynamics 1998 (World Sci Pub, River Edge, NJ, 1998) 11N7
European Community on Computational Methods in Applied Sciences: European Conference held in Paris, September 1996, Int J Numer Methods Fluids **30**(2) 127-228 (May 1999), 11A47
Numerical analysis of backward-facing step laminar flow by direct solver (Chinese), J Xi'an Jiaotong Univ **33**(5) 38-41 (1999), 11A1140
Investigation of split-spray fuel injector nozzles using a computational design of experiments, Comput Model Simul in Eng **4**(2) 83-91 (May 1999), 12T56
Numerical prediction of stirred laminar and turbulent air flow in a cylindrical container, Comput Model Simul in Eng **4**(2) 92-98 (May 1999), 12T57
Reminiscences about difference schemes, J Comput Phys **153**(1) 6-25 (Jul 1999), 12A58
Third-order upwind schemes for convection equations, J Beijing IT **8**(1) 30-35 (Mar 1999), 12A59
Adaptive grid technique for the vertical structure of shallow water models, Appl Math Model **23**(8) 639-650 (Aug 1999), 12A226
Simulation model and computation of noise emission of an installed propeller, Comput Model Simul in Eng **4**(2) 104-116 (May 1999), 12T330
Fast computation of stationary inviscid flow around an airfoil, J Eng Math **35**(4) 437-453 (May 1999), 12A1107
Finite volume method applied to 1D unsteady flow simulation of internal combustion engine manifold system (Chinese), J Shanghai Jiaotong Univ **33**(3) 339-341 (Mar 1999), 12A1156
Simulation of the evolution of concentrated shear layers in a Maxwell fluid with a fast high-resolution finite-difference scheme, J Non-Newtonian Fluid Mech **84**(2-3) 275-287 (Aug 1999), 12A1171
High-order finite difference method for unsteady convection-diffusion problems with source term, J Hydrodyn **11**(2) 97-102 (1999), 12A1438
Oberbeck convection flow of a couple stress fluid through a vertical porous stratum, Int J Non-Linear Mech **34**(6) 1037-1045 (Nov 1999), 12A1526

104D. Other applications

Basic LOgical bulk shapes for FE hexahedral mesh generation to support virtual prototyping, J Manuf Sci Eng **120**(4) 728-735 (Nov 1998), 2A580
Numerical analysis of thermal run system in injection molds, J Huazhong Univ Sci Tech **26**(7) 100-102 (Jul 1998), 4A757
Parallel algorithms of precise integration of convection-diffusion equations (Chinese), J Dalian Univ Tech **39**(1) 17-21 (Jan 1999), 7A1434
Energy conserving treatment of variable interfaces in a finite difference PE code, Acustica **85**(S1) 18-23 (Jan-Feb 1999), 8A45
Finite difference schemes for a nonlinear heat equation with functional dependence, Z Angew Math Mech **79**(1) 53-64 (1999), 8A46
Direct method of lines for the numerical solutions of interface problem, Comput Methods Appl Mech Eng **171**(1-2) 61-75 (Mar 1999), 9A48
Finite volume discretization with imposed flux continuity for the general tensor pressure equation, Comput Geosci **2**(4) 259-290 (Jan 1999), 11A69

104E. Algorithms and grid development

Orthogonal grid generation for Navier-Stokes computations, Int J Numer Methods Fluids **28**(2) 215-224 (Aug 1998), 1A55
Flexible automatic hexahedral mesh generation by boundary-fit method, Comput Methods Appl Mech Eng **161**(1-2) 145-154 (Aug 1998), 1A56
Unstructured grid partitioning method based on genetic algorithms, Adv Eng Software **29**(2) 129-138 (Mar 1998), 1A57
Automatic adaptive meshing technique for Delaunay triangulations, Comput Methods Appl Mech Eng **161**(3-4) 297-302 (Aug 1998), 2A80
Data-parallel line relaxation method for the Navier-Stokes equations, AIAA J **36**(9) 1603-1609 (Sep 1998), 2A81
Generalized meshing environment for computational mechanics, AIAA J **36**(9) 1735-1737 (Sep 1998), 2T82
Pressure-based compressible calculation method utilizing total variation diminishing schemes, AIAA J **36**(9) 1652-1657 (Sep 1998), 2A1131
Adaptive grid sequencing and interpolation schemes for helicopter rotor wake analyses, AIAA J **36**(9) 1593-1602 (Sep 1998), 2A1248
Comparison of ODE solution methods for spacecraft thermal problems, Heat Transfer Eng **19**(3) 103-109 (Jul-Sep 1998), 3A60
Finite volume method for fluid flow in polar cylindrical grids, Int J Numer Methods Fluids **28**(4) 663-677 (Sep 1998), 3A61
Note on finding nearest neighbors and constructing Delaunay triangulation in the plane, Commun Numer Methods Eng **14**(9) 871-877 (Sep 1998), 3A62
Stable difference schemes for parabolic systems: A numerical radius approach II, SIAM J Numer Anal **35**(5) 1995-2003 (Oct 1998), 3A63
Two-dimensional mesh redistribution and solution of singular boundary value problems, Commun Numer Methods Eng **14**(9) 797-808 (Sep 1998), 3A64
Mesh gradation control, Int J Numer Methods Eng **43**(6) 1143-1165 (Nov 1998), 4A49
Parallel DNS with local grid refinement, Appl Sci Res **59**(4) 379-394 (1997), 4A50
Automatic grid generation of complex geometries in Cartesian coordinates, Int J Numer Methods Fluids **28**(9) 1303-1324 (Dec 1998), 5A49
Error estimator for adaptive mesh refinement analysis based on strain energy equalization, Comput Mech **22**(4) 355-366 (Oct 1998), 5A50
Optimized upwind dispersion-relation-preserving finite difference scheme for computational aeroacoustics, AIAA J **36**(11) 2146-2148 (Nov 1998), 5T51
Triangular mesh reconstruction from measured data points - 2nd Report: Refinement methods for initial meshes, J Japan Soc Precision Eng **64**(10) 1461-1466 (Oct 1998), 5A52
Advancing front point generation technique, Commun Numer Methods Eng **14**(12) 1097-1108 (Dec 1998), 6A57
Multigrid method applied to 3D domains (Chinese), J Xi'an Jiaotong Univ **32**(12) 94-97 (1998), 6A58
Robust and parallel relaxation method based on algebraic splittings, Numer Methods PDE **15**(1) 91-110 (Jan 1999), 6A1418
Neural network graph partitioning procedure for grid-based domain decomposition, Int J Numer Methods Eng **44**(5) 593-613 (Feb 1999), 7A40
Role of flow-consistent grid in CFD, Comput Fluids **28**(3) 265-280 (Mar 1999), 7A59
Smoothness improvements of algebraic surface grid generation, AIAA J **37**(1) 123-125 (Jan 1999), 7T60
Voronoi diagram and medial axis algorithm for planar domains with curved boundaries - II: Detailed algorithm description, J Comput Appl Math **102**(2) 253-277 (Feb 1999), 7A61
Efficient solution of spacecraft thermal models using preconditioned conjugate gradient methods, J Spacecraft Rockets **35**(6) 760-764 (Nov-Dec 1998), 7A276
Acceleration and stabilization properties of minimal residual smoothing technique in multigrid, Appl Math Comput **100**(2-3) 151-168 (May 1999), 8A47
Q-Morph: An indirect approach to advancing front quad meshing, Int J Numer Methods Eng **44**(9) 1317-1340 (Mar 1999), 8A48
Surface triangulation over intersecting geometries, Int J Numer Methods Eng **44**(9) 1359-1376 (Mar 1999), 8A49
Deformable orthogonal grids: Lemniscates, J Comput Appl Math **104**(1) 41-48 (Apr 1999), 9A49
Applications of mesh smoothing: Copy morph and sweep on unstructured quadrilateral meshes, Int J Numer Methods Eng **45**(1) 37-45 (May 1999), 10A71
Extended triangular mesh subdivision methods and their evaluation (Japanese), J Japan Soc Precision Eng **65**(3) 386-390 (Mar 1999), 10A72
Planar harmonic grid generation, Numer Methods PDE **15**(3) 305-315 (May 1999), 10A73
Surface mesh quality evaluation, Int J Numer Methods Eng **45**(1) 101-118 (May 1999), 10A74
Algorithms and Data Structures for Structured and Unstructured Grid Generation (VKI Fluid Dyn, Rhode-St-Genese, Belgium, 1998) 11N5
Handbook of Grid Generation (CRC Press, Boca Raton FL, 1998) 11N8
Preservation of probabilistic laws through Euler methods for Ornstein-Uhlenbeck process, Stochastic Anal Appl **17**(3) 463-486 (1999), 11A88
High-order upwind method for hyperbolic grid generation, Comput Fluids **28**(7) 825-851 (Sep 1999), 12A60
Robust mart algorithm for tomographic applications, Numer Heat Transfer B **35**(4) 485-506 (Jun 1999), 12A61

106. OTHER METHODS IN COMPUTATIONAL MECHANICS

106A. Boundary element methods: General

Adaptive BE for nonlinear problems by using computing point analysis, Adv Eng Software **29**(2) 105-111 (Mar 1998), 1A58
Efficient field point evaluation by combined direct and hybrid BEMs, Eng Anal Boundary Elements **21**(3) 215-222 (Apr 1998), 1A59
Elimination of rigid body modes from discretized boundary integral equations, Int J Solids Struct **35**(33) 4427-4436 (Nov 1998), 1A60
Error estimation in adaptive beam by postprocessing interpolation, Commun Numer Methods Eng **14**(7) 633-645 (Jul 1998), 1A61
Fast BE algorithm for time-dependent potential problems, Appl Math Model **22**(3) 183-196 (Mar 1998), 1A62
Generation of an orthogonal grid by the use of a boundary integral technique, Eng Anal Boundary Elements **21**(3) 197-205 (Apr 1998), 1A63
Optimal iterative process for the Johnson-Nedelec method of coupling boundary and FEs, SIAM J Numer Anal **35**(4) 1393-1415 (May 1998), 1A64
Spline collocation for a boundary integral equation on polygons with cuts, SIAM J Numer Anal **35**(4) 1452-1472 (May 1998), 1A65
Computational fluid dynamics in Russia, Int J Comput Fluid Dyn **10**(2) 91-182 (1998), 2T40
Assessment of the spectral properties of the matrix G used in the BEMs, Comput Mech **22**(1) 32-41 (Jul 1998), 2A83
Boundary element solution of the Laplace and biharmonic equations subjected to noisy boundary data, Int J Numer Methods Eng **43**(3) 479-492 (Oct 1998), 2A84
Boundary-only formulations of the BEM, J Theor Appl Mech **36**(2) 479-491 (1998), 2A85
Comments on the use of radial basis functions in the dual reciprocity method, Comput Mech **22**(1) 61-69 (Jul 1998), 2A86
Fuzzy BEM in the analysis of uncertain systems, J Theor Appl Mech **36**(2) 493-512 (1998), 2A87
Numerical integration schemes for evaluation of (hyper)singular integrals in 2D BEM, Comput Mech **22**(1) 1-11 (Jul 1998), 2A88
Regularized symmetric Galerkin BIE formulations in the Laplace transform domain for 2D problems, Comput Mech **22**(1) 50-60 (Jul 1998), 2A89
Simple, accurate scheme for the numerical evaluation of integrals with complex singularity poles, Comput Mech **22**(1) 42-49 (Jul 1998), 2A90
Evaluation of the anisotropic Green's function and its derivatives, Comput Struct **69**(2) 247-254 (Oct 1998), 2A611
Adaptive H- and H-R methods for Symm's integral equation, Comput Methods Appl Mech Eng **162**(1-4) 1-17 (Aug 1998), 3A65
Approximation method for solving inhomogeneous linear and nonlinear differential equations using the BEM and radial basis functions, Z Angew Math Mech **78**(8) 545-553 (1998), 3A66
Green's function-based integral approaches to linear transient boundary-value problems and their stability characteristics (I), Appl Math Model **22**(9) 687-702 (Sep 1998), 3A67
Analysis of the superconvergent patch recovery technique and a posterior error estimator in the FEM - II, Comput Methods Appl Mech Eng **163**(1-4) 159-170 (Sep 1998), 4A51
Approach to boundary integral element via Fourier transforms, Eng Anal Boundary Elements **22**(3) 215-220 (Oct 1998), 4A52
Elimination of integral singularity in BEM for cooling simulation of injection molds, J Huazhong Univ Sci Tech **26**(S1) 28-30 (May 1998), 4A53
Static and dynamic stress intensity factors computations by the hypersingular element method (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 339-363 (1998), 4A54
Time weighting in time domain BEM, Eng Anal Boundary Elements **22**(3) 175-181 (Oct 1998), 4A55
Solution of the 3D elasticity problems of mechanics by the method of boundary integral equations (Russian), Prikl Mekh (Appl Mech) **34**(6) 45-53 (1998), 4A526
Circulant preconditioners for ill-conditioned boundary integral equations from potential equations, Int J Numer Methods Eng **43**(8) 1505-1521 (Dec 1998), 5A53
Review of dual BEMs with emphasis on hypersingular integrals and divergent series, Appl Mech Rev **52**(1) 17-33 (Jan 1999), 5A54
Symmetric Galerkin BEMs, Appl Mech Rev **51**(11) 669-704 (Nov 1998), 5A55
Complex one-sided integrals of Cauchy and Hadamard and application to BEM, Int J Numer Anal Methods Geomech **22**(12) 947-968 (Dec 1998), 6A59
Extraction technique in boundary integral equations, Math Comput **68**(225) 91-122 (Jan 1999), 6A60
Faster Galerkin boundary integral algorithm, Commun Numer Methods Eng **14**(12) 1109-1117 (Dec 1998), 6A61
Linear θ method applied to 2D time-domain BEM, Commun Numer Methods Eng **14**(12) 1171-1179 (Dec 1998), 6A62
Boundary Elements XX: Advances in Boundary Elements (Comput Mech, Billerica MA, 1998) 7N2
Annihilator method for computing particular solutions to partial differential equations, Eng Anal Boundary Elements **23**(3) 275-279 (Mar 1999), 7A62
Approximate Green's functions in boundary integral analysis, Eng Anal Boundary Elements **23**(3) 267-274 (Mar 1999), 7A63
Error estimation for BEM, Eng Anal Boundary Elements **23**(3) 257-265 (Mar 1999), 7A64
Fully symmetric multi-zone Galerkin BEM, Int J Numer Methods Eng **44**(7) 991-1009 (Mar 1999), 7A65
New boundary integral formulation for plane elastic bodies containing cracks and holes, Int J Solids Struct **36**(14) 2041-2074 (May 1999), 7A66
Stochastic second-order BEM perturbation formulation, Eng Anal Boundary Elements **23**(2) 123-129 (Feb 1999), 7A67
Theoretical and computational aspects of the stochastic BEM, Comput Methods Appl Mech Eng **168**(1-4) 321-344 (Jan 1999), 7A68
Boundary Element Research in Europe (Comput Mech, Billerica MA, 1998) 8N4
Dual reciprocity method using compactly supported radial basis functions, Commun Numer Methods Eng **15**(2) 137-150 (Feb 1999), 8A50
Existence of approximate solutions to mixed boundary value problems, Numer Methods PDE **15**(2) 191-199 (Mar 1999), 8A51

Recent results and proposals for the use of the radial basis functions in the BEM, Eng Anal Boundary Elements **23**(4) 285-296 (Apr 1999), 8A52
Boundary stress calculation - A comparison study, Comput Struct **71**(1) 77-85 (Apr 1999), 9A50
Generic structure for scalar and vector BE codes using FORTRAN 90, Adv Eng Software **30**(5) 313-325 (May 1999), 9A51
Method of fundamental solutions for axisymmetric potential problems, Int J Numer Methods Eng **44**(11) 1653-1669 (Apr 1999), 9A52
Nonlinear BEM, Eng Anal Boundary Elements **23**(5-6) 365-525 (May-Jun 1999), 9A53
Singular Integrals in Boundary Element Methods (Comput Mech, Billerica MA, 1998) 10N4
Development of p-version adaptive BE analysis system, JSME Int J Ser A **41**(2) 192-198 (Apr 1998), 10A75
Dynamic elastic-plastic analysis by a symmetric Galerkin BEM with time-independent kernels, Comput Methods Appl Mech Eng **171**(3-4) 281-308 (Apr 1999), 10A76
Virtual BEM for solving mathematical equations and relationship between it and relative methods (Chinese), J Dalian Univ Tech **39**(2) 183-190 (Mar 1999), 10A77
Weakly singular stress-BEM for 2D elastostatics, Int J Numer Methods Eng **45**(1) 13-35 (May 1999), 10A78
Boundary Integral Equation Methods for Solids and Fluids (Wiley, UK, 1999) 11R1
Advances in BEMs, Comput Methods Appl Mech Eng **173**(3-4) 273-483 (Apr 1999), 11T70
Introduction to BEM by integral transforms, Eng Anal Boundary Elements **23**(7) 603-609 (Jul 1999), 11A71
New random BE formulation applied to high frequency phenomena, J Sound Vib **223**(2) 273-296 (Jun 1999), 11A165
Third-order BEM for exterior acoustics with applications to scattering by rigid and elastic shells, J Sound Vib **222**(5) 699-722 (May 1999), 11A325
Boundary Integral Methods: Numerical and Mathematical Aspects (Comput Mech, Billerica MA, 1998) 12N2
Adaptive FE-BE solution of boundary value problems, J Comput Appl Math **106**(2) 307-316 (Jun 1999), 12A12
Analytical integrations for 2D elastic analysis by the symmetric Galerkin BEM, Comput Mech **23**(4) 308-323 (May 1999), 12A62
Boundary integral formulation of the plane theory of elasticity with applications: Analytical aspects, J Comput Appl Math **106**(1) 55-70 (Jun 1999), 12A63
Posteriori boundary element error estimation, J Comput Appl Math **106**(1) 1-19 (Jun 1999), 12A64
Treffitz BEs: Multi-region formulations, Int J Numer Methods Eng **45**(7) 821-840 (Jul 1999), 12A65

106B. Boundary element methods: Applications

Vibroacoustic behavior of an elastic box using state-of-the-art FEM-BEM approaches, Noise Control Eng J **46**(3) 83-90 (May-Jun 1998), 1A38
Symmetric-iterative FE and BE coupling method for solving axisymmetric problems, Int J Pressure Vessels Piping **75**(2) 155-159 (Feb 1998), 1A52
Dynamic analysis of rigid surface footings by BEM, J Sound Vib **214**(4) 747-759 (Jul 1998), 1A66
Indirect BE formulation for multi-valued impedance simulation in structural acoustics, Appl Math Model **22**(6) 379-393 (Jun 1998), 1A67
Technical note: Preliminary work for modeling the propellers of an aircraft as a noise source in an acoustic BE analysis, Noise Control Eng J **46**(3) 132-136 (May-Jun 1998), 1A68
Three dimensional BEs for half-space problems, Eng Anal Boundary Elements **21**(3) 207-213 (Apr 1998), 1A69
Prediction of radiated noise from machine components using the BEM and the Rayleigh integral, Noise Control Eng J **46**(3) 77-82 (May-Jun 1998), 1A326
Diametral plane-wave analysis for short circular chambers with end offset inlet-outlet and side extended inlet-outlet, J Sound Vib **214**(3) 580-587 (Jul 1998), 1T331
Novel method of structural shape optimization coupling BEM with an optimization method based on biological growth, Struct Optim **15**(3-4) 296-300 (Jun 1998), 1A956
Boundary element method analysis for the transient conduction-convection in 2D with spatially variable convective velocity, Appl Math Model **22**(1-2) 81-112 (Jan-Feb 1998), 1A1323
Hybrid numerical technique, combining the FE and BEMs, for modeling the 3D response of 2D scatterers, Bull Seismol Soc Am **88**(4) 1036-1050 (Aug 1998), 2A37
Computational fluid dynamics in Russia, Int J Comput Fluid Dyn **10**(2) 91-182 (1998), 2T40
Finite element method-BEM coupling in the membrane structure-air interaction problem, J Theor Appl Mech **36**(2) 513-520 (1998), 2A53
Adaptive BEM for acoustic scattering problems, J Theor Appl Mech **36**(2) 423-436 (1998), 2A91
Application of the BEM for analysis of shakedown problems, J Theor Appl Mech **36**(2) 387-401 (1998), 2A92
Application of the BEM in radiation, J Theor Appl Mech **36**(2) 351-364 (1998), 2A93
Application of the BEM to numerical modeling of solidification - Part I: The one domain approach, J Theor Appl Mech **36**(2) 457-468 (1998), 2A94
Application of the BEM to numerical modeling of solidification - Part II: The micro-macro approach, J Theor Appl Mech **36**(2) 469-478 (1998), 2A95
Boundary element method in dynamic crack analysis, J Theor Appl Mech **36**(2) 403-421 (1998), 2A96
Boundary element method in sensitivity analysis, optimization and identification, J Theor Appl Mech **36**(2) 365-386 (1998), 2A97
Boundary integral equations for the shells of arbitrary geometry (Russian), Prikl Mekh (Appl Mech) **34**(5) 57-67 (1998), 2A98
Boundary-integral-equation methods for screen problems in acoustic and electromagnetic aerospace research, J Eng Math **34**(1-2) 143-162 (Jul 1998), 2A99
Finite-volume and BEM for flow past interfaces in the presence of surfactants, with application to shear flow past a viscous drop, Comput Fluids **27**(8) 879-902 (Nov 1998), 2A100
Rapid BEM for modeling viscous flow within asymptotically-thin gaps, J Trib **120**(4) 710-715 (Oct 1998), 2A101
Finite element model for acoustic radiation, J Sound Vib **215**(3) 489-498 (Aug 1998), 2A435
Iterative scheme for dense, complex-symmetric, linear systems in acoustics BE computations, SIAM J Sci Comput **19**(5) 1450-1470 (Sep 1998), 2T440
Boundary element model of plasticity-induced fatigue crack closure, Fatigue Fracture Eng Mat Struct **21**(7) 857-871 (1998), 2A864
New numerical method for solving 1D multiphase problems, J Eng Appl Sci **45**(3) 295-310 (Jun 1998), 2A1291
Nonlinear dynamic earth DAM-foundation interaction using a BEM-FEM, Earthquake Eng Struct Dyn **27**(9) 917-936 (Sep 1998), 2A1464
Numerical modeling of bio-heat transfer using the BEM, J Theor Appl Mech **36**(2) 437-455 (1998), 2A1555
Advances in Computational Structural Mechanics (Civil-Comp, Edinburgh, UK, 1998) 3N4
Plate Bending Analysis with Boundary Elements (Comput Mech, UK, 1998) 3N7
Boundary Element Method in Acoustics: A Development in Fortran (Integrated Sound Software, UK, 1998) 3R8
Effective method for finding values on and near boundaries in the elastic BEM, Comput Struct **69**(4) 421-431 (Nov 1998), 3A68
Iterative solvers for BEM algebraic systems of equations, Eng Anal Boundary Elements **22**(2) 117-124 (Sep 1998), 3A69
Boundary integral equation method for evaluating the performance of straight-through resonator with mean flow, J Sound Vib **216**(2) 281-294 (Sep 1998), 3A317
Acoustic radiation of baffled finite ducts with vibrating walls, J Sound Vib **216**(3) 461-493 (Sep 1998), 3A332
General BE analysis of 2D linear elastic fracture mechanics, Int J Fracture **88**(1) 41-59 (1997), 3A783
Application of dual kriging to structural shape optimization based on the boundary contour method, Arch Appl Mech **68**(7-8) 539-551 (Sep 1998), 3A877
General boundary solution method for potential flow around a 2D semi-infinite body, J Shanghai Univ **2**(3) 194-197 (Sep 1998), 3A1041
Boundary element analysis of 3D mixing flow of Newtonian and viscoelastic fluids, Int J Numer Methods Fluids **28**(5) 815-840 (Oct 1998), 4A56
Flaw identification in elastomechanics: BEM simulation with local and genetic optimization, Struct Optim **16**(2-3) 162-175 (Oct 1998), 4A57
HR-method of mesh refinement for BEM, Int J Numer Methods Eng **43**(6) 979-996 (Nov 1998), 4A58
Indirect BEM for shear flow over prolate and oblate hemispheroidal protuberances on plane walls, Int J Numer Methods Fluids **28**(6) 961-981 (Oct 1998), 4A59
Iterative solution of large-scale 3D-BEM industrial problems, Eng Anal Boundary Elements **22**(3) 183-197 (Oct 1998), 4A60
Precise finite strip method, Comput Struct **69**(6) 773-783 (Dec 1998), 4A61
Analyses of forging processes by a rigid-plastic finite-BEM, J Mat Processing Tech **84**(1-3) 13-19 (Dec 1998), 4A716
Performance of traction-singular BEs in analyzing fracture process in transient quasistatic environments, Comput Methods Appl Mech Eng **163**(1-4) 261-270 (Sep 1998), 4A849
Integral equation method for the flow in an infinite tunnel, Z Angew Math Mech **78**(11) 731-742 (1987), 4A1025
Further refinement of the subsonic doublet-lattice method, J Aircraft **35**(5) 720-727 (Sep-Oct 1998), 4A1099
Boundary element analysis of mufflers with an improved method for deriving the four-pole parameters, J Sound Vib **217**(4) 767-779 (Nov 1998), 5A56
Efficient tool for multi-frequency analysis in acoustic scattering or radiation by BEM, Acustica **84**(5) 884-893 (Sep-Oct 1998), 5A57
Fast convergent iterative BEM on PVM cluster, Eng Anal Boundary Elements **22**(4) 307-316 (Dec 1998), 5A58
Indentation of an incompressible elastic film, Mech Mat **30**(4) 275-286 (Dec 1998), 5A59
Numerical implementation of an implicit BEM scheme with the consistent tangent operator in axisymmetric elastoplasticity, Int J Pressure Vessels Piping **75**(11) 827-830 (Sep 1998), 5A60
Calculation of sound radiated by a helicopter rotor in hover with an integral equation (French), Acustica **84**(5) 793-800 (Sep-Oct 1998), 5A263
Motion of a sphere near planar confining boundaries in a Brinkman medium, J Fluid Mech **375** 265-296 (Nov 1998), 5A964
Analysis of 2D thin structures: From micro- to nanoscales using the BEM, Comput Mech **22**(5) 404-412 (Dec 1998), 6A63
Boundary element method for analysis of contaminant transport in fractured and non-fractured porous media, Comput Geotech **23**(3) 165-181 (1998), 6A64
Boundary element method for calculating elastic waves scattered by axisymmetric inclusion, Acta Mech Solida Sinica **11**(4) 359-364 (1998), 6A65
DRM-MD integral equation method: An efficient approach for the numerical solution of domain dominant problems, Int J Numer Methods Eng **44**(3) 327-353 (Jan 1999), 6A66
Hypersingular formulation for boundary strain evaluation in the context of a CTO-based implicit BEM scheme for small strain elastoplasticity, Int J Plasticity **14**(10-11) 1033-1058 (1998), 6A67
Modeling of pile wave barriers by effective trenches and their screening effectiveness, Soil Dyn Earthquake Eng **18**(1) 1-10 (Jan 1998), 6A191
Elastic wave propagation in an irregularly layered medium, Soil Dyn Earthquake Eng **18**(1) 11-18 (Jan 1998), 6A220
Scattering from submerged objects by a hybrid asymptotic-boundary integral equation method, Wave Motion **29**(2) 137-156 (Feb 1999), 6A228
Integral representation formulation of some 1D problems, J Sound Vib **218**(5) 845-860 (Dec 1998), 6A270
Complete family of functions methods, based on the Rayleigh hypothesis and on the extinction theorem, for inverse acoustic wave scattering problems, Acustica **84**(6) 1083-1090 (Nov-Dec 1998), 6A300
Sound propagation over noise barriers with absorbing ground, J Sound Vib **218**(5) 799-823 (Dec 1998), 6A316
Stresses around pin-loaded hole in composite laminates using direct BEM, Int J Solids Struct **36**(5) 763-783 (Feb 1999), 6A524
Finite element method-boundary element method analysis of vibration of an enbankment track on layered soils for harmonic moving loads (Japanese), Proc JSCE **605**(I-45) 143-152 (Oct 1998), 6T757
Axisymmetric forging analyses by the rigid-plastic FBEM, J Mat Processing Tech **86**(1-3) 208-215 (Feb 1999), 6A781
BEM based evaluation of SIFs using modified crack closure integral technique under remote and/or crack edge loading, Eng Fracture Mech **61**(5-6) 655-671 (Nov-Dec 1998), 6A893
Boundary Elements XX: Advances in Boundary Elements (Comput Mech, Billerica MA, 1998) 7N2
Acoustics: Basic Physics, Theory, and Methods (Academic Press, San Diego CA, 1999) 7R4
Disk-based quasi-frontal solution used for a non-symmetrical fully populated matrix in the BEM, Adv Eng Software **30**(2) 147-151 (Feb 1999), 7A69
Internal field error reduction in BE analysis for Helmholtz equation, Eng Anal Boundary Elements **23**(3) 211-222 (Mar 1999), 7A70
Numerical solution for the second-order wave interaction with porous structures, Int J Numer Methods Fluids **29**(3) 265-288 (Feb 1999), 7A71
Object-oriented programming in BEMs using C++, Adv Eng Software **30**(2) 127-132 (Feb 1999), 7A72
Optimum shape and topology design using the BEM, Int J Solids Struct **36**(14) 2021-2040 (May 1999), 7A73
Quasi-frontal solution method with block elimination for algebraic equation system in BEM (Chinese), Chinese J Comput Mech **16**(1) 41-46 (Feb 1999), 7T74
Wave sloshing in corrugated bottom tanks with 2D flow, Ocean Eng **26**(8) 703-712 (Aug 1999), 7A236
Practical use and verification tests of noise abatement due to absorptive devices at the top of highway noise barriers (Japanese), Proc JSCE **609**(VI41) 51-60 (Dec 1998), 7A315
Numerical experiments for acoustic modes of a square cavity using the dual BEM, Appl Acoust **57**(4) 293-325 (Aug 1999), 7A320
Interaction of an explosion bubble with a fixed rigid structure, Int J Numer Methods Fluids **29**(4) 389-396 (Feb 1999), 7A1034
Time domain solution of unsteady flow around a ship, J Hydrodyn **10**(4) 7-15 (1998), 7T1115
Boundary Element Research in Europe (Comput Mech, Billerica MA, 1998) 8N4
Advances in Fluid Mechanics II (Comput Mech, UK, 1998) 8N21
Boundary integral operators for the Laplace and the Helmholtz equations and their discretizations, Eng Anal Boundary Elements **23**(4) 327-337 (Apr 1999), 8A53
Dynamic analysis of plates by boundary elements, Appl Mech Rev **52**(7) 213-236 (Jul 1999), 8A54
Efficient method to evaluate hypersingular and supersingular integrals in boundary integral equations analysis, Eng Anal Boundary Elements **23**(4) 317-326 (Apr 1999), 8A55
Numerical analysis of pressure variation under train passage using the BEM, JSME Int J Ser B **41**(3) 624-631 (Aug 1998), 8T56
Piezoelectric BE crack closure calculation of 3D strain energy release rates, J Intelligent Mat Syst Struct **9**(4) 251-259 (Apr 1998), 8A57
Three-dimensional elastodynamic BEM: Semi-analytical integration for linear isoparametric triangular elements, Int J Numer Methods Eng **44**(8) 1031-1054 (Mar 1999), 8A58
Vibration analysis of arbitrarily shaped membranes using non-dimensional dynamic influence function, J Sound Vib **221**(1) 117-132 (Mar 1999), 8A140
Finite elements with nonreflecting boundary conditions formulated by the Helmholtz integral equation, J Vib Acoust **121**(2) 214-220 (Apr 1999), 8A341
Numerical analysis for perforated muffler components with mean flow, J Vib Acoust **121**(2) 231-236 (Apr 1999), 8A345
Two-dimensional stress intensity factor computations using BEM for piezoelectric media (Chinese), J Shanghai Jiaotong Univ **32**(12) 74-76 (Dec 1998), 8A775
Boundary element alternating method applied to analyze the stress concentration problems of multiple elliptical holes in an infinite domain, Nucl Eng Des **187**(3) 303-313 (Mar 1999), 9A54
H-adaptive refinement BEM procedure using modified sample point error analysis in 2D elastic problems, Adv Eng Software **30**(4) 227-242 (Apr 1999), 9A55
New singular BE for crack problems - Application to bolted joints, Eng Fracture Mech **62**(6) 497-510 (Apr 1999), 9A56
Boundary element method for small-amplitude viscous fluid sloshing in couple with structural vibration, Acta Mech Solida Sinica **12**(1) 9-21 (1999), 9A284
Theory of sound propagation in a duct with a branched tube using modal decomposition, Acustica **85**(2) 153-169 (Mar-Apr 1999), 9A329
Uniqueness of solution of field point of singular source outside-region-distribution method, Appl Math Mech **20**(1) 36-42 (Jan 1999), 9A573
Calculation of stress intensity factors for elliptical cracks in finite bodies by using the boundary weight function method, J Pressure Vessel Tech **121**(2) 181-187 (May 1999), 9A856
Modified crack closure integral based computation of stress intensity factors for 2D thermoelastic problems through BEM, Nucl Eng Des **187**(3) 277-290 (Mar 1999), 9A860
Impact-echo from a unilateral interlayer crack: LCP-BEM modeling and neural identification, Eng Fracture Mech **62**(2-3) 165-184 (Jan-Feb 1999), 9A907
Singularity analysis and boundary integral equation method for frictional crack problems in 2D elasticity, Int J Fracture **90**(3) 251-274 (1998), 9A932
Propeller sheet cavitation predictions using a panel method, J Fluids Eng **121**(2) 282-288 (Jun 1999), 9A1288
Coupling model of FE-BE-IE-IBE for nonlinear layered soil-structure interactions, Earthquake Eng Struct Dyn **28**(4) 421-441 (Apr 1999), 9A1493
Singular Integrals in Boundary Element Methods (Comput Mech, Billerica MA, 1998) 10N4
Boundary Element Methods for Damage Tolerance Design of Aircraft Structures (Comput Mech, Billerica MA, 1998) 10R12
Selected papers presented at the second China-Australia symposium on computational mechanics, Struct Eng and Mech **7**(6) 533-614 (Jun 1999), 10T64
Boundary element application for mixed mode loading idealized sawtooth fracture surface, Int J Solids Struct **36**(21) 3239-3252 (Jul 1999), 10A79
Complex variable BEM solution for half-plane problems with straight boundary clamped, Int J Solids Struct **36**(26) 4017-4029 (Sep 1999), 10A80
Problem of an optimal discretization in acoustic modeling, Arch Acoust **23**(2) 239-249 (1998), 10A81
Solving contact problem with friction by a new fast BEM, Chinese J Mech Eng **11**(3) 201-206 (Sep 1998), 10A530

Boundary element formulation for a class of non-local damage models, Int J Solids Struct **36**(24) 3617-3638 (Aug 1999), 10A876
Analysis of crack problems with non-local elasticity, Appl Math Mech **20**(2) 143-153 (Feb 1999), 10A940
Analysis of eddy currents in a bar containing an embedded defect, NDT&E Int **32**(5) 293-303 (Jul 1999), 10A966
Dynamic interaction of nonlinear waves and a seawall over sand seabed, Int J Offshore Polar Eng **8**(1) 30-38 (Mar 1998), 10A1108
Boundary Integral Equation Methods for Solids and Fluids (Wiley, UK, 1999) 11R1
Boundary contour method based on the equivalent BIE of 2D linear elasticity (Chinese), Chinese J Comput Mech **16**(2) 175-180 (May 1999), 11T72
Boundary element method in elastodynamics for geometrically axisymmetric problems, Appl Math Model **23**(6) 501-508 (Jun 1999), 11A73
Calculation of interior point stresses in 2D BE analysis of anisotropic bodies with body forces, J Strain Anal Eng Des **34**(2) 117-128 (Mar 1999), 11A74
Improved implicit algorithm for the elastic viscoplastic BEM, Z Angew Math Mech **79**(5) 317-333 (1999), 11A75
Modeling of elastic line inhomogeneities inside an elastic continuum using BEM, J Struct Eng (India) **25**(3) 173-176 (Oct 1998), 11A76
Shape optimization by the BEM with a reduced basis reanalysis technique, Struct Eng and Mech **8**(1) 73-84 (Jul 1999), 11A77
Symmetric BEM for "discrete" crack modeling of fracture processes, Comput Assisted Mech Eng Sci **5**(3) 201-226 (1998), 11A78
Acoustic attenuation performance of circular expansion chambers with extended inlet-outlet, J Sound Vib **223**(2) 197-212 (Jun 1999), 11A326
Noise propagation from a cutting of arbitrary cross-section and impedance, J Sound Vib **223**(3) 355-378 (Jun 1999), 11A337
Boundary element analysis of elastic contact problems using gap FEs, Comput Struct **71**(6) 651-661 (Jun 1999), 11A466
Fast Fourier-BEM for axisymmetric potential and elasticity problems with arbitrary boundary conditions, Comput Mech **23**(3) 258-270 (Apr 1999), 11A474
Evaluation of the stress intensity factors for a 3D interfacial crack by the BEM, J Strain Anal Eng Des **34**(3) 209-215 (May 1999), 11A786
Topology and shape optimization of continuum structures using GA and BEM, Struct Optim **17**(2-3) 130-139 (Apr 1999), 11A875
Two dimensional shape optimization using genetic algorithm, Comput Assisted Mech Eng Sci **5**(3) 311-321 (1998), 11A876
Discontinuous Materials and Structures (Comput Mech, Billerica MA, 1999) 12N4
Advanced BEM for axisymmetric elastodynamic analysis, Comput Methods Appl Mech Eng **175**(1-2) 53-70 (Jun 1999), 12A66
Calculation of vibro-acoustic frequency response functions using a single frequency BE solution and a Pade expansion, Acustica **85**(3) 371-377 (May-Jun 1999), 12A67
Contact problem analysis for heterogeneous body by BEM, Stud Geotech Mech **20**(3-4) 17-27 (1998), 12A68
Diffracted acoustic fields about circular apertures in soft and hard baffles, Acustica **85**(3) 301-311 (May-Jun 1999), 12A69
Mixed spectral-BE embedding algorithms for the Navier-Stokes equations in the vorticity-stream function formulation, J Comput Phys **153**(1) 82-100 (Jul 1999), 12T70
Computation of the time-history response of dynamic problems using the BEM and modal techniques, Int J Numer Methods Eng **45**(7) 841-864 (Jul 1999), 12A163
Elastodynamics by BEM: A new direct formulation, Int J Numer Methods Eng **45**(6) 721-740 (Jun 1999), 12A192
Simulation model and computation of noise emission of an installed propeller, Comput Model Simul in Eng **4**(2) 104-116 (May 1999), 12T330
Fatigue crack growth of surface cracks under non-symmetric loading, Eng Fracture Mech **63**(4) 375-393 (Jul 1999), 12A760
Nonlinear surface crack analysis by 3D BE with mixed boundary conditions, Eng Fracture Mech **63**(4) 413-424 (Jul 1999), 12A846

106C. Collocation, least-square, Galerkin, and related methods

Limiting profile arising from orthonormalizing shifts of exponentially decaying functions, IMA J Numer Anal **18**(3) 331-354 (Jul 1998), 1A70
Method of conjugate residuals for solving the Galerkin equations associated with symmetric positive semidefinite ill-posed problems, SIAM J Numer Anal **35**(4) 1621-1645 (May 1998), 1A71
Semidiscrete FE scheme for the "good" Boussinesq system (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 181-202 (1998), 2A27
Data-fitting procedure for chaotic time series, Appl Math Comput **95**(2-3) 219-243 (Sep 1998), 2A102
Estimating the parameters of the binomial autoregressive process of order one, Appl Math Comput **95**(2-3) 193-204 (Sep 1998), 2A103
Particle image velocimetry via wavelet analysis, AIAA J **36**(8) 1451-1459 (Aug 1998), 2A104
Predictive inference on equicorrelated linear regression models, Appl Math Comput **95**(2-3) 205-217 (Sep 1998), 2A105
Uniform-graded mesh block method for second kind Volterra integral equations, Comput Assisted Mech Eng Sci **5**(1) 3-8 (1998), 2A106
Adaptive approach with the Element-Free-Galerkin method, Comput Methods Appl Mech Eng **162**(1-4) 203-222 (Aug 1998), 3A70
Modified Local Green's Function Method - Part I: Mathematical background and formulation, Eng Anal Boundary Elements **22**(2) 141-151 (Sep 1998), 3A71
Modified Local Green's Function Method - Part II: Application for accurate flux and traction evaluation, Eng Anal Boundary Elements **22**(2) 153-159 (Sep 1998), 3A72
Orthogonal spline collocation methods for biharmonic problems, Numer Math **80**(2) 267-303 (Aug 1998), 3A73
Spectral collocation on triangular elements, J Comput Phys **145**(2) 743-757 (Sep 1998), 3T74
Prewavelet approximations for a system of boundary integral equations for plates with free edges on polygons, Math Methods Appl Sci **21**(13) 1233-1267 (Sep 1998), 3A611
Differential quadrature approach for delamination buckling analysis of composites with shear deformation, AIAA J **36**(10) 1869-1873 (Oct 1998), 3A644
Error analysis in interpolation by bivariate C^1-splines, IMA J Numer Anal **18**(4) 485-508 (Oct 1998), 4A62
Taylor-Galerkin method for simulating nonlinear dispersive water waves, J Comput Phys **146**(2) 546-569 (Nov 1998), 4A63
Error analysis of a weighted least-squares FEM for 2D incompressible flows in velocity-stress-pressure formulation, Math Methods Appl Sci **21**(18) 1637-1654 (Dec 1998), 6A29
Convergence of corrected derivative methods for second-order linear partial differential equations, Int J Numer Methods Eng **44**(2) 177-203 (Jan 1999), 6A68
Differential quadrature method: Application to initial-boundary-value problems, J Sound Vib **218**(4) 573-585 (Dec 1998), 6A69
Use of a stable boundary analogue of the collocation method to approximate the solution of some problems in mechanics, J Appl Math Mech **62**(4) 589-597 (1998), 6A70
Fast algorithms for high-order spline collocation systems, Numer Math **81**(1) 143-160 (Nov 1998), 6A81
Dynamic analysis of shallow shells of rectangular base, J Sound Vib **218**(5) 861-882 (Dec 1998), 6A164
Chebyshev collocation methods for fast orbit determination, Appl Math Comput **99**(2-3) 195-207 (Mar 1999), 6A281
Element free Galerkin analysis of steady dynamic growth of a mode I crack in elastic-plastic materials, Int J Solids Struct **36**(7) 1045-1079 (Mar 1999), 6A951
B-spline surface approximations of a six-sided PDE patch, Math Eng Industry 7(2) 211-231 (1999), 7A75
Dual focal splines and rational curves with rational offsets, Math Eng Industry 7(2) 139-154 (1999), 7A76
Fairing of 2D B-splines under design constraints, Math Eng Industry 7(2) 165-178 (1999), 7A77
Surface fairing for ship hull design application, Math Eng Industry 7(2) 179-193 (1999), 7A78
Accuracy of Galerkin methods in the time domain, J Vib and Control **5**(2) 155-174 (Mar 1999), 8A59
Discontinuous Galerkin method for the Navier-Stokes equations, Int J Numer Methods Fluids **29**(5) 587-603 (Mar 1999), 8A60
Galerkin spectral method for the vorticity and stream function equations, J Comput Phys **149**(2) 306-332 (Mar 1999), 8A61
Incomplete total least squares, Numer Math **81**(4) 521-538 (Feb 1999), 8A62
Optimal interpolatory subdivision schemes in multidimensional spaces, SIAM J Numer Anal **36**(1) 105-124 (Jan 1999), 8A63
Rational approximation to orthogonal bases and of the solutions of elliptic equations, Numer Math **81**(4) 561-575 (Feb 1999), 8T64
Three-dimensional vibration analysis of rectangular plates based on differential quadrature method, J Sound Vib **220**(4) 577-599 (Mar 1999), 8A152
Vibration analysis of discontinuous Mindlin plates by differential quadrature element method, J Vib Acoust **121**(2) 204-208 (Apr 1999), 8A154
Sensitivity analysis of the least-squares estimates of physical parameters to the measurement errors of amplitude-frequency characteristics, Machine Dyn Prob **22** 49-63 (1998), 9T57
Smoothing, enrichment and contact in the element-free Galerkin method, Comput Struct **71**(2) 173-195 (Apr 1999), 9A58
Wavelet-Galerkin scheme for analysis of large-scale problems on simple domains, Int J Numer Methods Eng **44**(11) 1599-1616 (Apr 1999), 9A59
Direct treatment and discretizations of nonlinear spatially continuous systems, J Sound Vib **221**(5) 849-866 (Apr 1999), 9A96
Optimized meshless method for acoustics (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 109-114 (Jan 1999), 9A370
Order reduction by the discrete-time least-squares Pade method, J Syst Control Eng **213**(I1) 61-64 (1999), 9T404
Hydrodynamic stability of the plane Poiseuille flow of an electrorheological fluid, Int J Non-Linear Mech **34**(4) 589-602 (Jul 1999), 9A1251
Issues related to least-squares FEMs for the Stokes Equations, SIAM J Sci Comput **20**(3) 878-906 (Oct 1998), 10T49
Higher-order accurate least-squares methods for first-order initial value problems, Int J Numer Methods Eng **45**(1) 77-99 (May 1999), 10A82
Stability of full discrete Fourier nonlinear Galerkin algorithm (Chinese), J Xi'an Jiaotong Univ **33**(4) 94-97 (1999), 10A83
Superconvergence of the orthogonal spline collocation solution of Poisson's equation, Numer Methods PDE **15**(3) 285-303 (May 1999), 10A84
Well- or ill-posed problem of parameter identification: The method of analysis applied in a cassette recorder drive modeling, Eng Trans **46**(2) 189-204 (1998), 10A85
Treatment of boundary conditions in 1D wavelet-Galerkin method, JSME Int J Ser A **40**(4) 382-388 (Oct 1997), 10A91
Optimal selection of interior points for applying discretized boundary conditions in DQ vibration analysis of beams and plates, J Sound Vib **222**(2) 239-257 (Apr 1999), 10A162
Dynamic stability of a rotating shaft driven through a universal joint, J Sound Vib **222**(1) 19-47 (Apr 1999), 10A202
Applying the multistage-multigroup least squares procedure for numerical modeling of unsteady temperature fields, Bull Polish Acad Sci Tech Sci **46**(4) 399-408 (1998), 11A79
Diffusive methods and exponentially fitted techniques, Appl Math Comput **103**(1) 69-96 (Aug 1999), 11A80
Numerical integration of the Galerkin weak form in meshfree methods, Comput Mech **23**(3) 219-230 (Apr 1999), 11A81
Nonlinear vibration of Mindlin plate subjected to moving forces including the effect of weight of the plate, Struct Eng and Mech **8**(2) 151-164 (Aug 1999), 11A203
Influence of boundary conditions on the frequency characteristics of a rotating truncated circular conical shell, J Sound Vib **223**(2) 171-195 (Jun 1999), 11A207
Analysis of the discontinuous Galerkin method for wave propagation problems, J Comput Phys **151**(2) 921-946 (May 1999), 11T279
Fitting parametrized polynomials with scattered surface data, J Biomech **32**(7) 715-720 (Jul 1999), 12A71
Galerkin and least-square FEMs for steady viscoelastic flows, J Non-Newtonian Fluid Mech **84**(2-3) 233-256 (Aug 1999), 12A72
Local Galerkin method for the approximate solutions to general FPK equations (Chinese), J Shanghai Univ **3**(1) 25-29 (Mar 1999), 12A73
Nonlinear spectral Galerkin algorithm for the Navier-Stokes equations (Chinese), J Xi'an Jiaotong Univ **33**(6) 85-89 (1999), 12A74
Analysis of the nonlinear vibration characteristics of a belt-driven system, J Sound Vib **223**(5) 723-740 (Jun 1999), 12A141
Discontinuous Galerkin method for the viscous MHD equations, J Comput Phys **152**(2) 608-641 (Jul 1999), 12T1233

106D. Transform methods (incl FFT)

Explicit Kirchhoff-Helmholtz integrals and their accurate numerical implementation, Wave Motion **28**(2) 119-148 (Sep 1998), 1A235
Wavelet based algorithm for pattern analysis, Physica D **119**(3-4) 250-282 (Aug 1998), 1A370
Direct boundary integral equations method to Stokes flow past rigid bodies in ground effect, Appl Mech Eng **3**(2) 217-232 (1998), 1A1111
Generalized integral transform technique in transient convection-diffusion: Theory, applications and research needs, J Brazilian Soc Mech Sci **20**(2) 179-200 (Jun 1998), 1A1388
Improved projection scheme applied to pseudospectral methods for the incompressible Navier-Stokes equations, Int J Numer Methods Fluids **28**(3) 501-521 (Sep 1998), 2A1107
Fast shallow-water equation solvers in latitude-longitude coordinates, J Comput Phys **145**(1) 432-444 (Sep 1998), 2A1493
Authors' reply, J Sound Vib **216**(1) 188-189 (Sep 1998), 3T75
Comments on "A rational harmonic balance approximation for the duffing equation of mixed parity", J Sound Vib **216**(1) 187-188 (Sep 1998), 3T76
Directional Wigner distribution and its applications, J Sound Vib **216**(4) 585-600 (Oct 1998), 3A77
Wavelet and chaos analysis of irregularities of vortex shedding, Mech Res Commun **25**(5) 583-591 (Sep-Oct 1998), 3T1132
Alternative point of view to the theory of fractional Fourier transform, IMA J Appl Math **60**(3) 215-224 (Jun 1998), 4A64
Applications of wavelet transforms in earthquake, wind and ocean engineering, Eng Struct **21**(2) 149-167 (Feb 1999), 4A65
Laplace-Transform multiple-scale procedure for the asymptotic solution of weakly nonlinear partial differential equations, Int J Non-Linear Mech **34**(1) 117-122 (Jan 1999), 4A66
Painless and direct way from integral to discrete fast wavelet transforms, Z Angew Math Mech **78**(11) 781-785 (1987), 4A67
Shannon orthogonal wavelet transform using FFT, J Huazhong Univ Sci Tech **26**(8) 67-69 (Aug 1998), 4A68
Application of wavelet model in system identification (Chinese), J Shanghai Jiaotong Univ **32**(8) 66-68 (Aug 1998), 4A349
Frequency-domain Karhunen-Loeve method and its application to linear dynamic systems, AIAA J **36**(11) 2117-2123 (Nov 1998), 5A61
Fourier-based maximum entropy method in stochastic dynamics, Struct Safety **20**(3) 221-235 (1998), 5A63
Discrete orthogonal wavelet packets and its application to reducing noise (Chinese), J Beijing IT **18**(1) 70-74 (Feb 1998), 5A295
Image progressive transmission method based on wavelet transform (Chinese), J Beijing IT **18**(1) 125-128 (Feb 1998), 5A338
Multi-resolution segmentation of textured images using wavelet transforms (Chinese), J Beijing IT **18**(4) 467-471 (Aug 1998), 5A340
Texture segmentation method based on wavelet and fuzzy theory (Chinese), J Shanghai Jiaotong Univ **32**(9) 40-42 (Sep 1998), 5A347
New identities involving the Laplace and the L_2-transforms and their applications, Appl Math Comput **99**(2-3) 141-151 (Mar 1999), 6A71
Proposal for two-sided Laplace transforms and its application to electronic circuits, Appl Math Comput **100**(1) 1-11 (Apr 1999), 6A72
Solving problem of laminates transient temperature by Laplace transform FEM (Chinese), J China Univ Mining Tech **27**(4) 445-447 (1998), 6A73
Nonlinear vibration analysis of a traveling string with time-dependent length by new hybrid Laplace transform-FEM, J Sound Vib **219**(2) 323-337 (Jan 1999), 6A153
Bivariate rational interpolants with rectangle-hole-structure, J Comput Math **17**(1) 1-14 (Jan 1999), 7A79
Three-dimensional effects in dynamically loaded journal bearings, Int J Numer Methods Fluids **29**(3) 311-341 (Feb 1999), 7A80
Integral Transform Method in Thermal and Fluids Sciences and Engineering (Begell House, New York, 1998) 8R27
Ridge and phase identification in the frequency analysis of transient signals by harmonic wavelets, J Vib Acoust **121**(2) 149-155 (Apr 1999), 8A65
Use of wavelet transform for compressing acoustic wave data from acoustic logging (Chinese), J Xi'an Jiaotong Univ **33**(3) 35-38 (1999), 8A348
Deconvolution of time series using wavelet transform: Introduction of wavelet packets with soft-thresholding and generation of optimized wavelets, JSME Int J Ser C **42**(1) 188-194 (Mar 1999), 9A60
Discrete Fourier Transform and its application in non-stationary random vibration calculation (Chinese), J Vib Eng **12**(1) 91-96 (Mar 1999), 9T61
Fourier transform of the Diamond Kernel of Marcel Riesz, Appl Math Comput **101**(2-3) 151-158 (Jun 1999), 9T62
LMS ANC method based on wavelet series (Chinese), J Vib Eng **12**(1) 73-77 (Mar 1999), 9T63
Study on wavelet transform in nonlinear dynamics phasespace reconstruction (Chinese), J Vib Eng **12**(1) 27-32 (Mar 1999), 9T64
Computation of Battle-Lemarie wavelets using an FFT-based algorithm, J Sci Comput **13**(4) 485-504 (Dec 1998), 10A86
Computation of the harmonics-to-noise ratio of a voice signal using a functional data analysis algorithm, J Sound Vib **222**(3) 512-520 (May 1999), 10T87
Exponentially accurate approximations to periodic Lipschitz functions based on Fourier series partial sums, J Sci Comput **13**(4) 419-460 (Dec 1998), 10A88
Nonuniform fast fourier transform, Geophys **64**(2) 539-551 (Mar-Apr 1999), 10A89
Time-frequency distribution for analysis of signals with transient components and its application to vi-

bration analysis, J Vib Acoust **121**(3) 328-333 (Jul 1999), 10A90
Treatment of boundary conditions in 1D wavelet-Galerkin method, JSME Int J Ser A **40**(4) 382-388 (Oct 1997), 10A91
Adaptive hierarchical upscaling of flow in heterogeneous reservoirs based on an a posteriori error estimate, Comput Geosci **2**(4) 311-336 (Jan 1999), 11A82
Damage diagnosis of rotors: Application of Hilbert transform and multihypothesis testing, J Vib and Control **5**(3) 421-442 (May 1999), 11A350
Acoustic phase lenses in superfluid helium as models of composite space-times in general relativity: Classical and quantum features, Acta Phys Polonica B **B30**(4) 897-905 (Apr 1999), 12A75

106E. Hybrid and other methods (inverse scattering transforms, Pade etc)

Analysis of Petri nets using coverage tree (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 127-144 (1998), 2T107
Effect of panelling, application of the Kutta condition and the way of positioning the control points on the numerical solution of panel methods: Part II, Comput Assisted Mech Eng Sci **5**(1) 9-19 (1998), 2A108
Solving the Navier-Stokes systems with weak viscosity and strong heat conduction using the flux-corrected transport technique and the alternating-directional explicit method, J Comput Phys **144**(2) 379-401 (Aug 1998), 2T109
Two-point pade approximants for Stieltjes functions and their application to composite materials, Appl Math Comp Sci **8**(2) 417-434 (1998), 2A110
Study on the high-order Smolarkiewicz methods, Comput Fluids **28**(6) 779-799 (Jul 1999), 10A92
Second-order characteristic methods for advection-diffusion equations and comparison to other schemes, Adv Water Resources **22**(7) 741-768 (Apr 1999), 10T1405
Generalized Gaussian quadrature formulas with Chebyshev nodes, J Comput Math **17**(2) 171-178 (Mar 1999), 11A83
Three-dimensional orthogonal digital filters, Bull Polish Acad Sci Tech Sci **46**(4) 475-485 (1998), 11A84
Parameter estimation by spectral approximation, Appl Math Comput **104**(1) 1-14 (Sep 1999), 12A76
Spatially-factored fully implicit solution method for block structured meshes with irregular nodes, Comput Fluids **28**(7) 879-898 (Sep 1999), 12A77

106F. Stochastic analysis

Improvements to and limitations of Latin hypercube sampling, Probab Eng Mech **13**(4) 245-253 (Oct 1998), 1A72
Multinormal probability by sequential conditioned importance sampling: Theory and application, Probab Eng Mech **13**(4) 299-308 (Oct 1998), 1A73
Probability distributions of peaks and troughs of non-Gaussian random processes, Probab Eng Mech **13**(4) 291-298 (Oct 1998), 1A74
Tool-life modeling as a stochastic process, Int J Machine Tools Manuf **38**(10-11) 1361-1369 (Oct-Nov 1998), 1A1031
Considering mode selections behavior using multidimensional scaling, Sci Eng J (Ciencia Eng) **7**(1) 45-50 (Jan-Jun 1998), 2A111
Generalized Dirichlet distribution in Bayesian analysis, Appl Math Comput **97**(2-3) 165-181 (Dec 1998), 2A112
Method of analyzing time series, Acta Phys Polonica B **B29**(6) 1791-1794 (Jun 1998), 2T113
Sensitivity to correlation in multivariate models, Comput Assisted Mech Eng Sci **5**(1) 75-84 (1998), 2A114
Stochastic resonance in on-off intermittency, Acta Phys Polonica B **B29**(6) 1589-1598 (Jun 1998), 2A158
Transmission of vibration through a coupled periodic structure, J Sound Vib **215**(1) 63-79 (Aug 1998), 2A248
Practical procedures for reliability estimation of spacecraft structures and their components, AIAA J **36**(8) 1509-1515 (Aug 1998), 2A950
Structural reliability analysis using artificial neural nets (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 167-179 (1998), 2A952
Almost sure exponential stability for stochastic partial functional differential equations, Stochastic Anal Appl **16**(5) 965-975 (1998), 3T78
Application of classical parameters in statistical energy analysis of multi-structure systems (Chinese), J Vib Eng **11**(3) 281-290 (Sep 1998), 3A79
Estimation for nonlinear stochastic differential equations by a local linearization method, Stochastic Anal Appl **16**(4) 733-752 (1998), 3A80
Estimation of covariance functions of P_α-weakly stationary processes, Stochastic Anal Appl **16**(4) 607-629 (1998), 3T81
Note on monotone iterative technique for 1D stochastic differential equations, Stochastic Anal Appl **16**(1) 65-81 (1998), 3T82
Rate of wavelet approximation of stochastic processes, Stochastic Anal Appl **16**(2) 325-338 (1998), 3A83
Recursive algorithm for the solution of special nonlinear stochastic differential equations, Stochastic Anal Appl **16**(1) 29-41 (1998), 3T84
Approximating systems of differential equations with random inputs or boundary conditions, Stochastic Anal Appl **16**(2) 313-324 (1998), 3A118
Bispectral analysis of the bilinear oscillator with application to the detection of fatigue cracks, J Sound Vib **216**(5) 889-910 (Oct 1998), 3A132
Viability theorem for stochastic differential inclusions, Stochastic Anal Appl **16**(1) 1-15 (1998), 3T380
Class of second-order Runge-Kutta methods for numerical solution of stochastic differential equations, Stochastic Anal Appl **16**(6) 977-991 (1998), 4A69
Differentiability of probability function, Stochastic Anal Appl **16**(6) 1101-1128 (1998), 4A70
Exact solutions and doubly efficient approximations of jump-diffusion Ito equations, Stochastic Anal Appl **16**(6) 1049-1072 (1998), 4A71
Solution of a 2D stochastic investment problem, Appl Math Comput **98**(1) 75-82 (Jan 1999), 4A72
Bayesian statistics applied to the location of the source of explosions at Stromboli Volcano, Italy, Bull Seismol Soc Am **88**(5) 1099-1111 (Oct 1998), 4A1488
Asymptotic theory of large deviations for Markov chains, SIAM J Appl Math **58**(6) 1862-1877 (Dec 1998), 5A62
Fourier-based maximum entropy method in stochastic dynamics, Struct Safety **20**(3) 221-235 (1998), 5A63
Probability and statistics in engineering design, Proc Inst Mech Eng J Aerospace Eng **212**(G3) 149-212 (1998), 5A64
Stochastic Hopf bifurcation of quasi-nonintegrable-Hamiltonian systems, Int J Non-Linear Mech **34**(3) 437-447 (May 1999), 5A99
Stochastic stability of quasi-non-integrable-Hamiltonian systems, J Sound Vib **218**(5) 769-789 (Dec 1998), 6A118
Reduced-dimensionality geometric approach to fault identification in stochastic structural systems, AIAA J **36**(12) 2250-2256 (Dec 1998), 6A336
Improvement of analytical model using uncertain test data, AIAA J **37**(4) 489-495 (Apr 1999), 9A65
Moment closure by Monte Carlo simulation and moment sensitivity factors, Int J Non-Linear Mech **34**(4) 739-748 (Jul 1999), 9A66
Statistical inference about the median from vague data, Control and Cybernetics **27**(3) 447-464 (1998), 9T67
Long range collision effects for drifting velocity distributions, Planet Space Sci **47**(1-2) 57-66 (Jan-Feb 1999), 9A313
Convex-probabilistic models of uncertainties in geometric imperfections of stiffened composite panels, AIAA J **37**(4) 468-474 (Apr 1999), 9A717
Assessment of low probability events of dynamical systems by controlled Monte Carlo simulation, Probab Eng Mech **14**(3) 213-227 (Jul 1999), 9A982
Modeling of spacecraft rarefied environments using a proposed surface model, AIAA J **37**(4) 443-452 (Apr 1999), 9A1151
Unsteady drag consideration in stochastic Eulerian-Lagrangian formulation of two-phase flow, AIAA J **37**(4) 434-442 (Apr 1999), 9A1186
Computational Stochastic Mechanics (Balkema, Rotterdam, Netherlands, 1999) 10N1
Barrier crossing and transport activated by kangaroo fluctuations, Acta Phys Polonica B **B30**(1) 27-43 (Jan 1999), 10A17
Fractional calculus and stable probability distributions, Arch Mech **50**(3) 377-388 (1998), 10A25
Asymptotics of thermal dispersion in periodic media, J Theor Appl Mech **37**(1) 95-108 (1999), 10A93
Localization transitions from free random variables, Acta Phys Polonica B **B30**(1) 45-58 (Jan 1999), 10T94
Statistical and equivalent linearization techniques with probability density criteria, J Theor Appl Mech **37**(2) 369-382 (1999), 10A95
Stochastic flows driven by non-Markovian dichotomic noise, Acta Phys Polonica B **B30**(2) 203-225 (Feb 1999), 10A96
Random elastic media: Why zero mean stress does not imply zero mean strain, Arch Mech **50**(3) 451-458 (1998), 10A533
Random field models and scaling laws of heterogenous media, Arch Mech **50**(3) 549-558 (1998), 10T534
Efficiency of identification of a stochastic crack propagation model based on Virkler experimental data, Arch Mech **50**(5) 829-847 (1998), 10A866
Self-interaction of Brownian particles coupled with thermodynamic processes, Reports Math Phys **42**(3) 359-372 (Dec 1998), 11T5
Efficient stochastic FEM for random field problems, Appl Mech Eng **4**(1) 45-71 (1999), 11T85
Minimum variance unbiased estimation of a reliability system, Bull Polish Acad Sci Tech Sci **46**(3) 375-381 (1998), 11A86
One-dimensional random fields with fixed end values, Probab Eng Mech **14**(4) 301-310 (Oct 1999), 11A87
Preservation of probabilistic laws through Euler methods for Ornstein-Uhlenbeck process, Stochastic Anal Appl **17**(3) 463-486 (1999), 11A88
Second order stochastic simulation with specified correlation, Adv Eng Software **30**(7) 489-494 (Jul 1999), 11A89
Tracking properties of trajectories on random attracting sets, Stochastic Anal Appl **17**(3) 339-358 (1999), 11A90
New random BE formulation applied to high frequency phenomena, J Sound Vib **223**(2) 273-296 (Jun 1999), 11A165
Stochastic dynamics of systems with friction-induced vibration, J Sound Vib **223**(1) 115-140 (May 1999), 11A168
Exponential stability in mean-square of parabolic quasilinear stochastic delay evolution equations, Stochastic Anal Appl **17**(3) 443-461 (1999), 11A348
Estimation of robustness for controlled diffusion processes, Stochastic Anal Appl **17**(3) 421-441 (1999), 11A362
Transformation of non-Markovian kinetic equation for TCF to Markovian type, Acta Phys Polonica B **B30**(4) 881-895 (Apr 1999), 12T11
Local Galerkin method for the approximate solutions to general FPK equations (Chinese), J Shanghai Univ **3**(1) 25-29 (Mar 1999), 12A73
Asymptotic stability of solutions of stochastic differential equations with constant drift, Stochastic Anal Appl **17**(4) 651-665 (1999), 12A78
Sample path approximation for stochastic integro-differential equations, Stochastic Anal Appl **17**(4) 579-588 (1999), 12A79
Stochastic analysis and conservation laws, Stochastic Anal Appl **17**(4) 619-635 (1999), 12A80
Stochastic approach for the burgers equation with singular initial values, Stochastic Anal Appl **17**(4) 529-539 (1999), 12A81
Stochastic variation of constants formula for infinite dimensional equations, Stochastic Anal Appl **17**(4) 509-528 (1999), 12T82
Wong-Zakai approximations for reflecting stochastic differential equations, Stochastic Anal Appl **17**(4) 609-617 (1999), 12A83

106G. Asymptotic and perturbation methods

Perturbation analysis of generalized singular subspaces, Numer Math **79**(4) 615-641 (Jun 1998), 1A75
Local stability criterion for the Saturnian ring system, Planet Space Sci **46**(6-7) 615-628 (Jun-Jul 1998), 1A94
Nonlinear systems under delta correlated processes handled by perturbation theory, Probab Eng Mech **13**(4) 283-290 (Oct 1998), 1A127
Ice-induced nonlinear vibration of an offshore platform, J Sound Vib **214**(3) 431-442 (Jul 1998), 1A180
Parabolic equation formulation via a singular perturbation technique and its application to scattering from irregular surfaces, Waves in Random Media **8**(3) 315-328 (Jul 1998), 1A225
Effective properties of physically nonlinear piezoelectric composites, Arch Mech **50**(2) 321-340 (1998), 1A727
Absolute instabilities of a finite length vortex street with external axial velocities, Comput Assisted Mech Eng Sci **5**(2) 161-172 (1998), 2A115
Asymptotic behavior of solutions of higher order difference and partial difference equations with distributed deviating arguments, Appl Math Comput **97**(2-3) 139-164 (Dec 1998), 2T116
Low-temperature asymptotics of free energy for 3D using model in an external magnetic field, Acta Phys Polonica B **B29**(8) 1963-1974 (Aug 1998), 2T117
Singular perturbation of general boundary value problem for nonlinear differential equation system, Appl Math Mech **19**(6) 531-538 (Jun 1998), 2A118
Singular perturbation techniques in the study of a dynamical system arising from the kinetic theory of atoms and photons, Appl Math Comput **96**(1) 47-63 (Oct 1998), 2A119
Model system for the behavior of two nonlinearly coupled oscillators, J Sound Vib **215**(2) 313-330 (Aug 1998), 2A152
Orbit raising with low-thrust tangential acceleration in presence of Earth shadow, J Spacecraft Rockets **35**(4) 516-525 (Jul-Aug 1998), 2A355
Periodic solutions of random differential inclusions, Stochastic Anal Appl **16**(4) 683-695 (1998), 3T85
Uniform mean-square ergodic theorem for wide sense stationary processes, Stochastic Anal Appl **16**(4) 697-720 (1998), 3T86
Classical and quantum perturbation theory for two non-resonant oscillators with quartic interaction, Meccanica **33**(4) 397-405 (Aug 1998), 3A116
Nonlinear vibrations of viscoelastic moving belts - Part I: Free vibration analysis, J Sound Vib **216**(1) 75-91 (Sep 1998), 3A143
Nonlinear vibrations of viscoelastic moving belts - Part II: Forced vibration analysis, J Sound Vib **216**(1) 93-105 (Sep 1998), 3A144
Method of judging the self-excited vibration of rolling main drive system in rolling slippage, J Sound Vib **215**(5) 1135-1143 (Sep 1998), 3A177
Domains of attraction of asymptotic reliability functions of some homogeneous series-parallel systems, Appl Math Comput **98**(1) 61-74 (Jan 1999), 4A73
Quasilinear hyperbolic-hyperbolic singular perturbations with nonmonotone nonlinearity, Nonlinear Anal **35**(5) 589-607 (Mar 1999), 4T74
Nonlinear oscillations with multiple resonant or non-resonant forcing terms, Int J Non-Linear Mech **34**(1) 27-34 (Jan 1999), 4A115
Transitions in a nonlinear second-order system, Int J Non-Linear Mech **34**(2) 231-245 (Mar 1999), 4A121
Direct perturbation method of nonlinear vibration for the elastic circular thin plate (Chinese), Chinese J Comput Mech **15**(4) 471-477 (Nov 1998), 5T65
Multiple scale analysis for divergence-Hopf bifurcation of imperfect symmetric systems, J Sound Vib **218**(3) 527-539 (Dec 1998), 5A94
Method of multiple scales for vibration analysis of rotor-shaft systems with nonlinear bearing pedestal model, J Sound Vib **218**(2) 293-305 (Nov 1998), 5A149
"Booster method" for singular perturbation problems arising in chemical reactor theory, Appl Math Comput **100**(1) 27-48 (Apr 1999), 6A74
Comparative study on a singular perturbation problem with two singular boundary points, Appl Math Comput **99**(2-3) 179-193 (Mar 1999), 6A75
Improvement of numerical solution of self-adjoint singular perturbation problems by incorporation of asymptotic approximations, Appl Math Comput **98**(2-3) 119-137 (Feb 1999), 6A76
Approximations of solutions to some second order nonlinear differential equations, Nonlinear Anal **35**(8) 1061-1072 (Mar 1999), 7T81
Reduction principle for singular perturbation problems, Appl Math Comput **101**(1) 45-62 (Jun 1999), 8A66
Second-order solution of St Venant's problem for a piezoelectric circular bar using Signorini's perturbation method, J Elast **52**(1) 75-90 (1998), 8A675
Asymptotic behavior of a diffusive couple of model, Nonlinear Anal **36**(6) 679-683 (Jun 1999), 9T68
Asymptotic behavior of nonoscillatory solutions of nth-order neutral nonlinear equations with oscillating coefficients, Nonlinear Anal **36**(7) 891-898 (Jun 1999), 9T69
Second-order approximation for chaotic responses of a harmonically excited spring-pendulum system, Int J Non-Linear Mech **34**(4) 749-757 (Jul 1999), 9A101
Asymptotic analysis for a crack on interface of damaged materials, Int J Fracture **91**(1) 47-60 (1998), 9A918
Homogenization theories applied to porous media mechanics, J Theor Appl Mech **36**(3) 657-679 (1998), 10A97
Influence of dimensionless parameter orders of magnitude on the homogenization process result, J Theor Appl Mech **36**(3) 535-560 (1998), 10A98
Flow of conductive fluids through poroelastic media with piezoelectric properties, J Theor Appl Mech **36**(3) 775-794 (1998), 10A1479
Method of modified equations - I: Asymptotic analysis of the Euler forward difference method, Appl Math Comput **103**(2-3) 111-139 (Aug 1999), 11A64
Asymptotic behavior in convection-diffusion processes, Nonlinear Anal **37**(3) 301-318 (Jul 1999), 11T91
Nonlinear vibrations of a beam on an elastic foundation, J Sound Vib **223**(3) 335-354 (Jun 1999), 11A195
Asymptotic analysis of anisotropic nonlinear elastic plates, Bull Polish Acad Sci Tech Sci **47**(2) 115-126 (1999), 11A571
Perturbations: Theory and Methods (SIAM, Philadelphia, 1999) 12N6
Dimensional analysis and asymptotic expansions of the equilibrium equations in nonlinear elasticity - Part I: The membrane model, Arch Mech **50**(6) 953-973 (1998), 12A84
Dimensional analysis and asymptotic expansions of the equilibrium equations in nonlinear elasticity - Part II: The 2D von Karman model, Arch Mech **50**(6) 975-1001 (1998), 12A85
Perturbed motions of a rotating symmetric gyrostat, Eng Trans **46**(3-4) 271-289 (1998), 12A100

106H. Variational methods

Stability of a quasi-variational system, Nonlinear Anal **34**(5) 701-717 (Dec 1998), 1T76
Variational method of finding of fininte deformations of hyperelastic plan membranes, Prikl Mekh (Appl Mech) **34**(2) 43-49 (1998), 1A454

Effective properties of physically nonlinear piezoelectric composites, Arch Mech **50**(2) 321-340 (1998), 1A727
Optimal orientation of orthotropic materials using an energy based method, Struct Optim **15**(3-4) 230-236 (Jun 1998), 1A958
Analysis of rectangular thin plates and plate structures basing on the Vlasov's variational procedure, Comput Assisted Mech Eng Sci **5**(2) 115-128 (1998), 2A120
Some generalizations of brachistochrone problem, Acta Phys Polonica A **93**(S) 55-64 (1998), 2A121
Sub-gradient algorithms for solving multi-dimensional analysis problems of dissimilarity data, Appl Math Comp Sci **7**(3) 521-543 (1997), 2T122
Asymmetric vibrations and elastic stability of polar orthotropic circular plates of linearly varying profile, J Sound Vib **215**(2) 231-250 (Aug 1998), 2A217
Analysis of interfacial cracks in a TBC-superalloy system under thermomechanical loading, J Eng Gas Turbines Power **120**(4) 813-819 (Oct 1998), 2A887
Comments on the natural frequencies of rectangular plates derived from the Rayleigh-Ritz method, J Sound Vib **217**(3) 579-584 (Oct 1998), 4T75
Parametrized Lagrange multiplier method and construction of generalized mixed variational principles for computational mechanics, Comput Methods Appl Mech Eng **164**(3-4) 287-296 (Oct 1998), 4A76
Resonance wave interactions in a weakly viscous liquid, Int J Non-Linear Mech **34**(2) 197-220 (Mar 1999), 4A233
Vibration studies of cross-ply laminated shear deformable circular cylinders on the basis of orthogonal polynomials, J Sound Vib **218**(2) 219-243 (Nov 1998), 5A143
Quasiconvexity at the boundary and a simple variational formulation of Agmon's condition, J Elast **51**(1) 23-41 (1998), 5A424
Optimization of structures in unilateral contact, Appl Mech Rev **52**(4) 139-160 (Apr 1999), 5A438
Composite element method for vibration analysis of structure - Part I: Principle and C^0 element (BAR), J Sound Vib **218**(4) 619-658 (Dec 1998), 6A45
Composite element method for vibration analysis of structure - Part II: C^1 element (beam), J Sound Vib **218**(4) 659-696 (Dec 1998), 6A46
Free vibration analysis of curved and twisted cylindrical thin panels, J Sound Vib **219**(1) 63-88 (Jan 1999), 6A168
Free vibration of thick generally laminated quadrilateral plates having arbitrarily located point supports, J Aircraft **35**(6) 958-965 (Nov-Dec 1998), 6A172
Asymptotic modeling of rigid boundaries and connections in the Rayleigh-Ritz method, J Sound Vib **219**(2) 370-378 (Jan 1999), 6T186
General algorithm for the study of the dynamical behavior of beams, Appl Acoust **57**(4) 345-356 (Aug 1999), 7A82
Partially smooth variational principles and applications, Nonlinear Anal **35**(8) 1031-1059 (Mar 1999), 7T83
Effects of subtended and vertex angles on the free vibration of open conical shell panels: A conical coordinate approach, J Sound Vib **219**(5) 813-835 (Feb 1999), 7A156
Efficient tool for predicting the structural acoustic and vibration response of sandwich plates in light or heavy fluid, Appl Acoust **57**(3) 213-242 (Jul 1999), 7A167
Variational approach for straight edge effect stresses in laminated composites, Composite Struct **43**(3) 243-254 (Nov 1998), 7A540
In-plane vibration of thin rings with in-plane profile variations - Part I: General background and theoretical formulation, J Sound Vib **220**(3) 497-516 (Feb 1999), 8A136
In-plane vibration of thin rings with in-plane profile variations - Part II: Application to nominally circular rings, J Sound Vib **220**(3) 517-539 (Feb 1999), 8A137
Free vibration analysis of elliptic and circular plates having rectangular orthotropy, Struct Eng and Mech 7(1) 53-67 (Jan 1999), 8A147
Vibration of symmetrically laminated thick super elliptical plates, J Sound Vib **220**(4) 659-682 (Mar 1999), 8A163
Buckling and vibrations of unsymmetric laminates resting on elastic foundations under in-plane and shear forces, Composite Struct **44**(1) 31-41 (Jan 1999), 8A665
Calculus of Variations and Partial Differential Equations: Topics on Geometrical Evolution Problems and Degree Theory (Springer-Verlag, New York, 1999) 9N3
Vibration of Mindlin Plates: Programming the p-Version Ritz Method (Elsevier, Oxford, UK, 1998) 9R10
Sub-gradient algorithms for computations of extreme eigenvalues of a real symmetric matrix, Control and Cybernetics **27**(3) 387-415 (1998), 9A70
Variational iteration method - A kind of nonlinear analytical technique: Some examples, Int J Non-Linear Mech **34**(4) 699-708 (Jul 1999), 9A71
Transverse vibrations of simply supported orthotropic rectangular plates with rectangular and circular cutouts carrying an elastically mounted concentrated mass, Struct Eng and Mech 7(5) 503-512 (May 1999), 9A165
Vibration analysis of rectangular and skew plates by the Rayleigh-Ritz method, J Sound Vib **221**(2) 342-349 (Mar 1999), 9T167
Theory of sound propagation in a duct with a branched tube using modal decomposition, Acustica **85**(2) 153-169 (Mar-Apr 1999), 9A329
System symmetries and inverse variational problems in continuum theory, Arch Mech **50**(3) 599-611 (1998), 10T6
Variational principles for the FEMs and refined element methods (Chinese), J Dalian Univ Tech **39**(2) 150-157 (Mar 1999), 10A43
Frictional contact problems for nonlinear elastic materials, Appl Math Comp Sci **8**(3) 491-504 (1998), 10A99
Solvability of generalized nonlinear symmetric variational inequalities, J Austral Math Soc B **40**(3) 289-300 (Jan 1999), 10A100
Boundary mixed variational inequality in friction problem, Appl Math Mech **20**(2) 213-224 (Feb 1999), 10A517
Variational bounds on the effective moduli of anisotropic piezoelectric composites, Arch Mech **50**(4) 675-689 (1998), 10A760
Computational aspects of saturated porous media undergoing large deformations, J Theor Appl Mech **36**(3) 744-757 (1998), 10A1505
Macroscopic behavior of locking materials with microstructure - Part I: Primal and dual elastic-locking potential - Relaxation, Bull Polish Acad Sci Tech Sci **46**(3) 265-276 (1998), 11A12
Longitudinal shearing of elastic-plastic fibrous composite with frictional fiber-matrix interface, J Theor Appl Mech **36**(4) 855-877 (1998), 11A35
Degree calculations and applications to global bifurcation of variational inequalities, Nonlinear Anal **37**(4) 473-500 (Aug 1999), 11T92
Free-edge interlaminar stress analysis of composite laminates by extended Kantorovich method, AIAA J **37**(5) 656-660 (May 1999), 11T93
Linear convergence of PC-method for a class of linear variational inequalities, J Comput Math **17**(2) 199-208 (Mar 1999), 11A94
Numerical analysis for the discrete Morse semiflow related to the Ginzburg-Landau functional, Nonlinear Anal **37**(5) 589-602 (Aug 1999), 11T95
Relaxation of non-quasiconvex variational integrals, Numer Math **82**(2) 281-311 (Apr 1999), 11A96
Review of application of the Rayleigh-Ritz method to deflection problems, J Struct Eng (India) **25**(3) 191-196 (Oct 1998), 11T97
Shape optimization by means of material derivative, J Tech Phys **39**(3-4) 541-548 (1998), 11T98
Step by step integration method for dynamic response by Gurtin variational principle (Chinese), Chinese J Comput Mech **16**(2) 151-156 (May 1999), 11A99
Solution method for boundary control of 1D multispan vibrating systems, J Vib and Control **5**(3) 373-399 (May 1999), 11A186
Free vibration of line supported rectangular plates using a set of static beam functions, J Sound Vib **223**(2) 231-245 (Jun 1999), 11A201
Coupled fields and variational description of microelasticity, J Tech Phys **39**(3-4) 511-522 (1998), 11A1451
Symmetry and ordinary differential constraints, Int J Non-Linear Mech **34**(6) 1089-1102 (Nov 1999), 12A86
Variational analysis of a frictional contact problem for the Bingham fluid, Appl Math Comp Sci **9**(2) 371-385 (1999), 12A87
Free vibrations of tapered rectangular plates using a new set of beam functions with the Rayleigh-Ritz method, J Sound Vib **223**(5) 703-722 (Jun 1999), 12A147
Viscoelastic-plastic model for skeletal structural systems with clearances, Comput Assisted Mech Eng Sci **6**(1) 83-106 (1999), 12A597

106I. Algorithms and software development

Animation of group of elastic objects based on distributed physical simulation, Machine Graphics & Vision 7(1-2) 41-48 (1998), 1A77
Boundary integration of polynomials over an arbitrary linear hexahedron in Euclidean 3D space, Comput Methods Appl Mech Eng **161**(1-2) 155-193 (Aug 1998), 1A78
Convergence theorem on an extrapolated iterative method and its applications, Appl Numer Math **27**(3) 203-209 (Jul 1998), 1A79
Efficient algebraic multigrid solvers with elementary restriction and prolongation, Int J Numer Methods Fluids **28**(2) 317-336 (Aug 1998), 1A80
General approach to automatic generation of quadrilaterals on 3D surfaces, Commun Numer Methods Eng **14**(7) 609-620 (Jul 1998), 1A81
Graphical and non-graphical information integration, data base application development using AutoCAD, Machine Graphics & Vision 7(1-2) 197-203 (1998), 1T82
Integration of rational functions of bivariate polynomial numerators with linear denominators over a (-1, 1) square in a local parametric 2D space, Comput Methods Appl Mech Eng **161**(1-2) 195-213 (Aug 1998), 1A83
Iterative method for saddle point problems, Numer Math **79**(4) 643-646 (Jun 1998), 1T84
Multiview model of convex polyhedra, Machine Graphics & Vision **6**(4) 419-450 (1997), 1A85
Quadratic monotone iteration scheme for two-point boundary value problems for ordinary differential equations, Nonlinear Anal **33**(5) 443-453 (Sep 1998), 1T86
Regular solutions of nonlinear differential-algebraic equations and their numerical determination, Numer Math **79**(4) 581-600 (Jun 1998), 1A87
Survey and analysis of common polygonization methods and optimization techniques, Machine Graphics & Vision 6(4) 451-486 (1997), 1T88
Wrap-around partitioning for block bidiagonal linear systems, IMA J Numer Anal **18**(3) 373-383 (Jul 1998), 1A89
Face-dependent view model of convex polyhedra, Machine Graphics & Vision 7(1-2) 325-334 (1998), 1T365
Parallel iterative computational methods for 3D FE flow simulations, Comput Assisted Mech Eng Sci **5**(2) 173-183 (1998), 2A44
Combining subset selection and parameter constraints in model updating, J Vib Acoust **120**(4) 854-859 (Oct 1998), 2A59
Low-diffusion flux-splitting methods for flows at all speeds, AIAA J **36**(9) 1610-1617 (Sep 1998), 2A75
Data-parallel line relaxation method for the Navier-Stokes equations, AIAA J **36**(9) 1603-1609 (Se, 1998), 2A81
Advanced FEs in civil engineering practice, Comput Assisted Mech Eng Sci **5**(1) 101-110 (1998), 2A123
Efficient parallelization of a parabolized flow solver, Comput Fluids **27**(8) 985-1000 (Nov 1998), 2A124
Efficient shooting algorithms for solving the nonlinear 1D scalar Helmholtz equation, Appl Math Comput **95**(2-3) 101-114 (Sep 1998), 2A125
Fast solver for the complex symmetric eigenproblem, Comput Assisted Mech Eng Sci **5**(1) 85-92 (1998), 2T126
Improved first-order approximation of eigenvalues and eigenvectors, AIAA J **36**(9) 1721-1727 (Sep 1998), 2A127
Numerical solution of fuzzy linear equations in engineering analysis, Int J Numer Methods Eng **43**(3) 391-408 (Oct 1998), 2A128
Mesh adaption and automatic differentiation for optimal shape design, Int J Comput Fluid Dyn **10**(3) 199-211 (1998), 2A1226
Practical Inverse Analysis in Engineering (CRC Press, Boca Raton FL, 1997) 3R2
Advances in Engineering Computational Technology (Civil-Comp, Edinburgh, UK, 1998) 3N5
Accurate computation of the product-induced singular value decomposition with applications, SIAM J Numer Anal **35**(5) 1969-1994 (Oct 1998), 3A87
Determination of Jordan chains by extended matrices, Commun Numer Methods Eng **14**(9) 879-893 (Sep 1998), 3A88
Family of efficient extrapolation formulae and their application in mechanics, Int J Numer Methods Eng **43**(4) 733-753 (Oct 1998), 3A89
Generalized block Lanczos methods for large unsymmetric eigenproblems, Numer Math **80**(2) 239-266 (Aug 1998), 3A90
Numerical verification method for solutions of boundary value problems with local uniqueness by Banach's fixed-point theorem, SIAM J Numer Anal **35**(5) 2004-2013 (Oct 1998), 3A91
Tangent algorithm for computing the generalized singular value decomposition, SIAM J Numer Anal **35**(5) 1804-1832 (Oct 1998), 3A92
Asynchronous multisplitting AOR methods for a class of systems of weakly nonlinear equations, Appl Math Comput **98**(1) 49-59 (Jan 1999), 4T77
Implementation of boundary conditions for meshless methods, Comput Methods Appl Mech Eng **163**(1-4) 205-230 (Sep 1998), 4A78
Iterative multi level algorithm for solving nonlinear ill-posed problems, Numer Math **80**(4) 579-600 (Oct 1998), 4T79
Modified conjugate gradient method for the solution of Ax = b, J Sci Comput **13**(2) 173-183 (Jun 1998), 4A80
Projection techniques for iterative solution of Ax = b with successive right-hand sides, Comput Methods Appl Mech Eng **163**(1-4) 193-204 (Sep 1998), 4A81
Renumbering strategies for unstructured-grid solvers operating on shared-memory, cache-based parallel machines, Comput Methods Appl Mech Eng **163**(1-4) 95-109 (Sep 1998), 4A82
Stable implementation of the generalized minimal error method, J Comput Appl Math **98**(1) 49-62 (Oct 1998), 4A83
Variational acceleration techniques and related methods for local refinement, Int J Numer Methods Fluids **28**(6) 945-960 (Oct 1998), 4A84
VLSI architecture for image coding using EZW algorithm, Int J Robotics Autom **13**(3) 87-95 (1998), 4A85
Boundary conforming structured grid for global ocean circulation studies, Int J Numer Methods Fluids **28**(5) 761-788 (Oct 1998), 4A1503
Total generalized minimum backward error algorithm for solving nonsymmetric linear systems, J Comput Math **16**(6) 539-550 (Nov 1998), 5A66
Updating inverses in matrix analysis of structures, Int J Numer Methods Eng **43**(8) 1479-1504 (Dec 1998), 5A67
Alternative approach for determination of singularity of envelope to a family of parametric surfaces, Comput Methods Appl Mech Eng **167**(1-2) 153-165 (Dec 1998), 6A77
Convergence of Runge-Kutta methods for stiff nonlinear differential equations, Numer Math **81**(1) 31-51 (Nov 1998), 6A78
Explicit exponentially fitted methods for the numerical solution of the Schrodinger equation, Appl Math Comput **98**(2-3) 185-198 (Feb 1999), 6A79
Fast algorithm for Gaussian type quadrature formulae with mixed boundary conditions and some lumped mass spectral approximations, Math Comput **68**(225) 217-248 (Jan 1999), 6A80
Fast algorithms for high-order spline collocation systems, Numer Math **81**(1) 143-160 (Nov 1998), 6A81
Inverses of tridiagonal Toeplitz and periodic matrices with applications to mechanics, J Appl Math Mech **62**(4) 575-587 (1998), 6A82
NGP-stability of Runge-Kutta methods for systems of neutral delay differential equations, Numer Math **81**(3) 451-459 (Jan 1999), 6A83
Performance of three iterative methods for solution of GDQ algebraic equations, Comput Methods Appl Mech Eng **167**(1-2) 1-15 (Dec 1998), 6A84
Simple algorithm for computing the Fourier spectrum of experimentally obtained signals, Appl Math Comput **98**(2-3) 229-239 (Feb 1999), 6A85
Upwind finite volume schemes for weakly coupled hyperbolic systems of conservation laws in 2D, Numer Math **81**(1) 85-123 (Nov 1998), 6A86
Vectorized directional sweep based parallelization method for factored alternating direction implicit schemes, Int J Comput Fluid Dyn **10**(4) 291-299 (1998), 6A87
Application of neural networks to the dynamic analysis of nonlinear hysteretic behavior of high damping rubber bearings (Japanese), Proc JSCE **605**(I-45) 29-36 (Oct 1998), 6A1102
Numerical Linear Algebra for High-Performance Computers (SIAM, PA, 1998) 7R1
Computational methods in computer graphics, J Comput Appl Math **102**(1) 1-180 (Feb 1999), 7A84
Generalized conjugate residual method for the solution of non-symmetric systems of equations with multiple right-hand sides, Int J Numer Methods Eng **44**(5) 641-656 (Feb 1999), 7A85
Implicit solution of preconditioned Navier-Stokes equations using algebraic multigrid, AIAA J **37**(1) 29-36 (Jan 1999), 7A1008
Block triangular preconditioners for nonsymmetric saddle point problems: Field-of-values analysis, Numer Math **81**(4) 577-594 (Feb 1999), 8A67
Calculation of the multiplicity of a real eigenvalue of Hessenberg matrix, Adv Eng Software **30**(3) 201-210 (Mar 1999), 8A68
Dimension and local structures of attracting manifolds of smooth dynamical systems, Appl Math Comput **100**(2-3) 169-175 (May 1999), 8A69
Gradient method with retards and generalizations, SIAM J Numer Anal **36**(1) 275-289 (Jan 1999), 8A70
Halley iteration, Numer Math **81**(4) 647-677 (Feb 1999), 8A71
Linearized factorization techniques for multidimensional reaction-diffusion equations, Appl Math Comput **100**(2-3) 201-222 (May 1999), 8A72
Multiresolution based on weighted averages of the hat function - I: Linear reconstruction techniques, SIAM J Numer Anal **36**(1) 160-203 (Jan 1999), 8A73
Parallel algorithm for solving Toeplitz linear systems, Appl Math Comput **100**(2-3) 241-247 (May 1999), 8A74
Q^2-symbolic reasoning about noisy dynamic systems, J Intelligent & Robotic Syst **24**(3) 295-311 (Mar 1999), 8T75
Q^2-symbolic reasoning about noisy dynamic systems, Nonlinear Anal **36**(5) 295-311 (Jun 1999), 8T76
Recursive Gauss integration, Commun Numer Methods Eng **15**(2) 77-90 (Feb 1999), 8A77
Study of the effect of the non-orthogonality for non-staggered grids - The results, Int J Numer Methods Fluids **29**(6) 625-644 (Mar 1999), 8A1151
Advanced Numerical Approximation of Nonlinear Hyperbolic Equations (Springer-Verlag, New York, 1998) 9N2
Numerical Analysis (Springer-Verlag, New York, 1998) 9N6
Convergence of the lagged diffusivity fixed point method in total variation image restoration, SIAM J Numer Anal **36**(2) 354-367 (Jan 1999), 9A72

Improved fast multipole algorithm for potential fields on the line, SIAM J Numer Anal **36**(2) 629-666 (Jan 1999), 9A73
Integrator for time-dependent systems with oscillatory behavior, Comput Methods Appl Mech Eng **171**(1-2) 25-41 (Mar 1999), 9A74
Using explicit Runge-Kutta-Nystrom methods for the treatment of retarded differential equations with periodic solutions, Appl Math Comput **102**(1) 63-76 (Jul 1999), 9A75
Iterative Methods for Optimization (SIAM, Philadelphia, 1999) 10N2
Parallel Processing for Scientific Computing, 1999 (SIAM, Philadelphia, 1999) 10N3
Automesh for trimmed surface entity of IGES-PDES, Adv Eng Software **30**(6) 401-406 (Jun 1999), 10A101
Computational techniques for optimization of problems involving nonlinear transient simulations, Int J Numer Methods Eng **45**(3) 319-334 (May 1999), 10A102
Convergence of two-step methods generated by point-to-point operators, Appl Math Comput **102**(2-3) 165-176 (Jul 1999), 10A103
Convergence rates for inexact Newton-like methods at singular points and applications, Appl Math Comput **102**(2-3) 185-201 (Jul 1999), 10A104
Distribution of points on the sphere and corresponding cubature formulae, IMA J Numer Anal **19**(2) 317-334 (Apr 1999), 10A105
Fast approximating triangulation of large scattered datasets, Adv Eng Software **30**(6) 389-400 (Jun 1999), 10A106
Newton's method under mild differentiability conditions and applications, Appl Math Comput **102**(2-3) 177-183 (Jul 1999), 10A107
Posteriori computation of the singular vectors in a preconditioned Jacobi SVD algorithm, IMA J Numer Anal **19**(2) 191-213 (Apr 1999), 10A108
Special issue on Iterative methods and preconditioners, Appl Numer Math **30**(2-3) 155-391 (Jun 1999), 10A109
Cascadic multigrid algorithm for the Stokes equations, Numer Math **82**(2) 179-191 (Apr 1999), 11A100
Characterizations of classical and quantum communications processes, Chaos Solitons Fractals **10**(10) 1719-1736 (Oct 1999), 11A101
Conditional entropy and information in quantum systems, Chaos Solitons Fractals **10**(10) 1651-1656 (Oct 1999), 11A102
Fault-tolerant quantum computation with higher-dimensional systems, Chaos Solitons Fractals **10**(10) 1749-1758 (Oct 1999), 11A103
Geometric operations for visual reasoning of a solid from orthographic projections, Adv Eng Software **30**(7) 445-450 (Jul 1999), 11A104
Implicit and semi-implicit schemes: Algorithms, Int J Numer Methods Fluids **30**(3) 335-352 (Jun 1999), 11A105
Ion trap quantum gates, decoherence and error correction, Chaos Solitons Fractals **10**(10) 1621-1635 (Oct 1999), 11A106
Limit representations of generalized inverses and related methods, Appl Math Comput **103**(1) 51-68 (Aug 1999), 11T107
Multiple sequential staging of tasks: A new approach to parallel computations, Commun Numer Methods Eng **15**(5) 367-373 (May 1999), 11A108
Object-oriented program shell for integrating CAD software tools, Adv Eng Software **30**(8) 529-541 (Aug 1999), 11A109
Prolegomena to a nonequilibrium quantum statistical mechanics, Chaos Solitons Fractals **10**(10) 1637-1650 (Oct 1999), 11A110
Quantum Analog Computing, Chaos Solitons Fractals **10**(10) 1583-1620 (Oct 1999), 11A111
Quantum computation based on particle statistics, Chaos Solitons Fractals **10**(10) 1665-1678 (Oct 1999), 11A112
Quantum computers speed up classical with probability zero, Chaos Solitons Fractals **10**(10) 1707-1714 (Oct 1999), 11A113
Quantum computing with mesoscopic Josephson junctions, Chaos Solitons Fractals **10**(10) 1679-1688 (Oct 1999), 11A114
Quantum cryptography, eavesdropping and unsharp spin measurement, Chaos Solitons Fractals **10**(10) 1715-1718 (Oct 1999), 11A115
Quantum database search with certainty by a single query, Chaos Solitons Fractals **10**(10) 1689-1693 (Oct 1999), 11A116
Quantum effects in algorithms, Chaos Solitons Fractals **10**(10) 1657-1664 (Oct 1999), 11A117
Quantum search on structured problems, Chaos Solitons Fractals **10**(10) 1695-1705 (Oct 1999), 11A118
Simple orthonormalization method for stable and efficient computation of Green's functions, Bull Seismol Soc Am **89**(3) 733-741 (Jun 1999), 11A119
Spatiotemporal dynamics of quantum computing dipole-dipole block systems, Chaos Solitons Fractals **10**(10) 1737-1748 (Oct 1999), 11A120
Structural approach to representation of 3D-objects, Bull Polish Acad Sci Tech Sci **47**(2) 175-189 (1999), 11T121
Analysis of the quasi-Laguerre method, Numer Math **82**(3) 491-519 (May 1999), 12A88
Application of computer program KRYS3 for crystals form generation (Polish), Arch Naukio Mat **20**(1) 59-69 (1999), 12T89
Backward Euler method for abstract time-dependent parabolic equations with variable domains, Numer Math **82**(3) 471-490 (May 1999), 12T90
Error bounds for Romberg quadrature, Numer Math **82**(3) 389-408 (May 1999), 12T91
Extending DIPS software package for research and routine investigations of biomedical images, Machine Graphics & Vision 7(4) 711-723 (1998), 12A92
Implicit-explicit multistep methods for quasilinear parabolic equations, Numer Math **82**(4) 521-541 (Jun 1999), 12A93
New family of Runge-Kutta type methods for the numerical integration of perturbed oscillators, Numer Math **82**(4) 635-646 (Jun 1999), 12A94
Truncation strategies for optimal Krylov subspace methods, SIAM J Numer Anal **36**(3) 864-889 (Mar-May 1999), 12A95

106K. Computer architectures, systems, hardware

Neural Computing for Structural Mechanics (Saxe-Coburg Publications, UK, 1997) 1R1
Fast, robust and adaptive lossless image compression, Machine Graphics & Vision **8**(1) 95-116 (1999), 11T122
Image coding based on flexible contour model, Machine Graphics & Vision **8**(1) 83-94 (1999), 11T123
Warping-based interactive visualization on PC, Machine Graphics & Vision **8**(1) 63-76 (1999), 11T124
Interactive volume rotation, Machine Graphics & Vision **7**(4) 793-806 (1998), 12T96

II. DYNAMICS & VIBRATION

150. KINEMATICS AND DYNAMICS

150A. General theory

Advanced Dynamics (AIAA, MD, 1997) 1R4
Conservative pendulum equation with forcing term, Nonlinear Anal **34**(7) 1117-1121 (Dec 1998), 1T90
Hamilton-Jacobi theory for a generalized optimal stopping time problem, Nonlinear Anal **34**(7) 1029-1053 (Dec 1998), 1A91
Matrix realization of the theory of biquaternions, J Mech Des **120**(3) 404-407 (Sep 1998), 1A92
Kane's formalism and lie group theory, Mech Res Commun **25**(4) 385-393 (Jul-Aug 1998), 1T101
Kinematic and kinetic derivatives in multibody system analysis, Mech Struct Machines **26**(2) 145-173 (1998), 1A102
Classical particle with spin realized by reduction of a nonlinear nonholonomic constraint, Reports Math Phys **41**(1) 133-142 (Feb 1998), 2A129
Hamiltonian geodesics in nonholonomic differential systems, Reports Math Phys **40**(2) 217-224 (Oct 1997), 2T130
Implicit Hamiltonian systems with symmetry, Reports Math Phys **41**(2) 203-221 (Apr 1998), 2T131
Mecanique: Elements de Mecanique Rationnelle (French) (Editions Hermes, Paris, France, 1997) 3R9
Note on adiabatic invariance in Hamiltonian systems depending singularly on the slow time, Physica D **122**(1-4) 62-72 (Nov 1998), 3A93
Sufficient conditions of technical stability of oscillations of two coupled gyrostates carrying traveling flywheels (Russian), Prikl Mekh (Appl Mech) **34**(6) 104-112 (1998), 4A86
Stability of piecewise linear oscillators with viscous and dry friction damping, J Sound Vib **217**(3) 507-522 (Oct 1998), 4A133
Zeros of structural frequency response functions and their sensitivities, Mech Syst Signal Processing **12**(5) 591-597 (Sep 1998), 4A361
Classical Dynamics: A Contemporary Approach (Cambridge UP, New York, 1998) 5R3
Analysis of offshore guyed tower platforms to wind and wave forces, J Energy Resources Tech **120**(4) 256-262 (Dec 1998), 5A68
Study of conservation laws of second-order nonholonomic systems by means of the principle of Jourdain (Chinese), J Beijing IT **18**(1) 17-21 (Feb 1998), 5A69
Technische Mechanik: Fachbegriffe im deutschen und englischen Kontext (German) (BG Teubner, Stuttgart, 1998) 6R5
Influence of dissipative and constant forces on the form and stability of steady motions of mechanical systems with cyclic coordinates, J Appl Math Mech **62**(4) 503-510 (1998), 6A88
Poincare and Chetayev equations, J Appl Math Mech **62**(4) 495-502 (1998), 6A89
Szebehely's problem for nonholonomic systems with a given first integral, Appl Math Mech **19**(9) 843-849 (Sep 1998), 6A90
Analytical Mechanics (Cambridge UP, New York, 1998) 7R5
Engineering Mechanics: Dynamics (Prentice Hall, Upper Saddle River, NJ, 1999) 7R7
Analysis of the training of a neural network used to model dynamic systems (Chinese), Sci Eng J (Ciencia Eng) 7(2) 118-125 (Jul-Dec 1998), 7A86
Exponential stability of classical solutions to a class of semilinear wave equations with boundary dissipation, Nonlinear Anal **36**(1) 35-43 (Apr 1999), 7T87
Does the phugoid frequency depend on speed?, J Guidance Control Dyn **22**(2) 372-373 (Mar-Apr 1999), 8T78
Estimate of the time of motion of certain dynamical systems, J Appl Math Mech **62**(5) 823-826 (1998), 8A79
Generalized Serret-Andoyer transformation and applications for the controlled rigid body, Dyn Control **9**(1) 39-66 (Jan 1999), 8T80
Reducibility of the equations of free motion of a complex mechanical system, J Appl Math Mech **62**(5) 711-719 (1998), 8A81
Feasibility of identifying nonlinear vibratory systems consisting of unknown polynomial forms, J Sound Vib **220**(3) 413-450 (Feb 1999), 8A363
Multi-Hamiltonian Theory of Dynamic Systems (Springer-Verlag, Berlin, 1998) 9R8
Tensor Calculus and Analytical Dynamics (CRC Press, Boca Raton FL, 1999) 9R9
Memoir on Integrable Systems (Springer-Verlag, New York, 1999) 9N13
Conservation laws and symmetries of systems with unilateral constraints in phase space, Acta Mech Solida Sinica **12**(1) 22-30 (1999), 9A76
Equations of motion for nonholonomic mechanical systems with unilateral constraints, Appl Math Mech **20**(1) 59-67 (Jan 1999), 9A77
Hamiltonian systems on linear groups and 1D lattices with internal parameters, Machine Dyn Prob **20** 263-273 (1998), 9A78
Dynamic principle of symmetry (Russian), Prikl Mekh (Appl Mech) **34**(11) 97-103 (1998), 10T110
Introduction of inertial forces in generalized Euler's equations (Russian), Prikl Mekh (Appl Mech) **34**(12) 93-104 (1998), 10A111
Nambu: Poisson dynamics, Arch Mech **50**(3) 405-413 (1998), 10T112
Theory and method of optimal control solution to dynamic system parameters identification (I)-Fundamental concept and deterministic system parameters identificiaton, Appl Math Mech **20**(2) 135-142 (Feb 1999), 10A454
Modern Methods of Analytical Mechanics and Their Applications (Springer-Verlag, Vienna, 1998) 11R12
Affine connections and distributions with applications to nonholonomic mechanics, Reports Math Phys **42**(1-2) 135-164 (Aug-Oct 1998), 11T125
Nonholonomic Noether theorem and reduction of symmetries, Reports Math Phys **42**(1-2) 5-23 (Aug-Oct 1998), 11A126
Poisson reduction for nonholonomic mechanical systems with symmetry, Reports Math Phys **42**(1-2) 101-134 (Aug-Oct 1998), 11A127
Reduced equations for nonholonomic mechanical systems with dissipative forces, Reports Math Phys **42**(1-2) 185-209 (Aug-Oct 1998), 11T128
Reduction of nonholonomic mechanical systems with symmetries, Reports Math Phys **42**(1-2) 25-45 (Aug-Oct 1998), 11A129
Various approaches to conservative and nonconservative nonholonomic systems, Reports Math Phys **42**(1-2) 211-229 (Aug-Oct 1998), 11A130
Second-order constraints for equations of motion of constrained systems, IEEE/ASME Trans Mechatronics **3**(3) 240-248 (Sep 1998), 12A102

150B. Kinematics of rigid bodies and particles

Kinematics of a five dof prosthetic arm, Mech Machine Theory **33**(7) 895-908 (Oct 1998), 1A93
Dual number method, rank of a screw system and generation of Lie sub-algebras, Mech Machine Theory **33**(7) 1063-1084 (Oct 1998), 1A1057
Bernoulli numbers and rotational kinematics, J Appl Mech **65**(3) 758-763 (Sep 1998), 2A132
Fourth order finite screw system: General displacement of a point in a rigid body, Acta Mech **130**(1-2) 41-53 (1998), 2A133
Mecanique: Elements de Mecanique Rationnelle (French) (Editions Hermes, Paris, France, 1997) 3R9
Structure et Cinematique des Mecanismes (French) (Editions Hermes, Paris, France, 1997) 3R11
Modeling of elastically coupled bodies - Part I: General theory and geometric potential function method, J Dyn Syst Meas Control **120**(4) 496-500 (Dec 1998), 3A96
Modeling of elastically coupled bodies - Part II: Exponential and generalized coordinate methods, J Dyn Syst Meas Control **120**(4) 501-506 (Dec 1998), 3A97
Real-time computation of the actual posture of the general geometry 6-6 fully-parallel mechanism using two extra rotary sensors, J Mech Des **120**(4) 549-554 (Dec 1998), 3A989
Steiner formula and the Holditch theorem for the homothetic motions on the planar kinematics, Mech Machine Theory **34**(1) 1-6 (Jan 1999), 4A87
Third-order finite screw system: General displacement of a line, Mech Machine Theory **34**(2) 303-317 (Feb 1999), 4A88
Effect of elastic inhomogeneity on equilibrium and stability of a two particle morphology, Mech Mat **30**(3) 181-196 (Nov 1998), 4A589
Characterization of the self-motion set of the orthogonal spherical mechanism, Mech Machine Theory **34**(1) 59-88 (Jan 1999), 4A979
Characterization of 3D contact kinematics and prediction of resonant response of structures having 3D frictional constraint, J Sound Vib **217**(5) 909-925 (Nov 1998), 5A70
Decomposition of the space of parameters of a kinematical chain by its singularities, Mech Res Commun **25**(6) 637-642 (Nov-Dec 1998), 5T71
Determination of the acceleration center of a rigid body in spatial motion, Eur J Mech A **17**(6) 969-977 (Nov-Dec 1998), 5A72
Invariants of trajectory surfaces, Mech Machine Theory **34**(4) 587-597 (May 1999), 5A73
Screw theory and higher order kinematic analysis of open serial and closed chains, Mech Machine Theory **34**(4) 559-586 (May 1999), 5A74
Benchmark problems, Earthquake Eng Struct Dyn **27**(11) 1125-1397 (Nov 1998), 5A110
Forward kinematics for Hunt-Primrose parallel manipulators, Mech Machine Theory **34**(4) 657-664 (May 1999), 5A399
Position analysis of a two dof parallel mechanism: The Canterbury tracker, Mech Machine Theory **34**(4) 599-614 (May 1999), 5A871
Kinematic geometry of wheeled vehicle systems, J Mech Des **121**(1) 50-56 (Mar 1999), 7A88
Interpolation of spatial displacements using the Clifford Algebra of E^4, J Mech Des **121**(1) 39-44 (Mar 1999), 7A407
Geared 2-dof mechanical function generator, J Mech Des **121**(1) 65-70 (Mar 1999), 7A919
Dual-Number Methods in Kinematics, Statics and Dynamics (CRC Press, Boca Raton FL, 1999) 8R5
Tetrobot: A Modular Approach to Reconfigurable Parallel Robotics (Kluwer, Netherlands, 1998) 9R17
Measuring the acceleration of a rigid body, Shock Vib **5**(4) 211-224 (1998), 9A79
Two wheels connected by an unactuated variable length axle on uneven ground: Kinematic modeling and experiments, J Mech Des **121**(2) 235-240 (Jun 1999), 9A80
Kinematics analysis of the chipping process using the circular diamond saw blade, J Manuf Sci Eng **121**(2) 257-264 (May 1999), 9A778
Evolution of rotation of a rigid body (Russian), Prikl Mekh (Appl Mech) **35**(1) 98-103 (1999), 10A113
Angular-acceleration tensor of rigid-body kinematics and its properties, Arch Appl Mech **69**(3) 204-214 (Apr 1999), 11A131

150D. Dynamics of rigid bodies and particles

Advanced Dynamics (AIAA, MD, 1997) 1R4
Local stability criterion for the Saturnian ring system, Planet Space Sci **46**(6-7) 615-628 (Jun-Jul 1998), 1A94
Modeling of the wheel vehicles, Prikl Mekh (Appl Mech) **34**(1) 103-110 (1998), 1A95
New integrable problem in the dynamics of rigid bodies, Mech Res Commun **25**(4) 381-383 (Jul-Aug 1998), 1T96
Suppression of chaos by means of bounded excitations in an inverted pendulum, SIAM J Appl Math **58**(4) 1116-1127 (Aug 1998), 1A97
Planar dynamics of flexible manipulators with slewing deployable links, J Guidance Control Dyn **21**(4) 572-580 (Jul-Aug 1998), 1A430
Recursive formula for the inverse of the inertial matrix of a parallel manipulator, Mech Machine Theory **33**(7) 957-964 (Oct 1998), 1A470
Analysis of a rotating pendulum with a mass free to move radially, J Appl Mech **65**(3) 778-782 (Sep 1998), 2A134
Dynamics of a flexible beam with a lubricated prismatic kinematic pair, J Vib Acoust **120**(4) 880-885 (Oct 1998), 2A135
Introduction: Theory of tilting train behavior, Proc Inst Mech Eng F **212**(F1) 1-5 (1998), 2A136

Distributed rotor dynamics, J Syst Control Eng **212**(I4) 249-265 (1998), 3A176

Statistical mechanics of a dissipative dynamical system with small noise, Physica D **122**(1-4) 105-116 (Nov 1998), 3A1222

Adiabatic invariant of the harmonic oscillator, complex matching and resurgence, SIAM J Math Anal **29**(6) 1335-1360 (Nov 1998), 4A89

Analysis and design of aerocapture tether with accounting for stochastic errors, J Spacecraft Rockets **35**(5) 683-689 (Sep-Oct 1998), 4A90

Analysis of a canister projectile system, J Spacecraft Rockets **35**(5) 721-724 (Sep-Oct 1998), 4T91

Combination resonances in the response of the Duffing oscillator to a three-frequency excitation, Acta Mech **131**(3-4) 235-245 (1998), 4A92

Spacecraft momentum dumping using gravity gradient, J Spacecraft Rockets **35**(5) 714-717 (Sep-Oct 1998), 4A93

Vehicle dynamics using a limit surface treatment of the tire-road interface, Proc Inst Mech Eng D **212**(D5) 347-356 (1998), 4A94

Acceleration of charged particles in corotating interaction regions (CIR): A review with particular emphasis on the Ulysses mission, Surveys Geophys **19**(3) 211-278 (1998), 4A284

Algebraic structure of the dynamical equations of holonomic mechanical system in relative motion, J Beijing IT **7**(1) 12-18 (Mar 1998), 5A75

Differential variational principles and equations of motion of mechanical systems with unilateral constraints, J Beijing IT **7**(1) 19-25 (Mar 1998), 5A76

Lie symmetries and conserved quantities of holonomic systems with remainder coordinates, J Beijing IT **7**(1) 26-31 (Mar 1998), 5A77

Routh reduction and its application in rigid body dynamics, Z Angew Math Mech **78**(10) 695-702 (1998), 5A78

Toppling fragility of unrestrained equipment, Earthquake Spectra **14**(4) 695-711 (Nov 1998), 5A1490

Conservation of mass for a particle moving with high velocity, Appl Math Mech **19**(8) 777-782 (Aug 1998), 6A91

Dynamics of golf ball-hole interactions: Rolling around the rim, J Dyn Syst Meas Control **121**(1) 88-95 (Mar 1999), 6A92

Dynamics of railway vehicles: From Stephenson to Carter, Proc Inst Mech Eng F **212**(F3) 209-217 (1998), 6A93

Solution to the 2D findpath problem, Dyn Stability Syst **13**(4) 373-401 (1998), 6A94

Variety of stationary states of the wheel vehicle with an asymmetic arrangement of the gravity center (Russian), Prikl Mekh (Appl Mech) **34**(9) 104-106 (1998), 6A95

Vehicle dynamics and control synthesis for four-wheel steering passenger cars, Proc Inst Mech Eng D **212**(D6) 449-461 (1998), 6A96

Analytical Mechanics (Cambridge UP, New York, 1998) 7R5

Integrable variants of non-holonomic rigid body problems, Z Angew Math Mech **78**(12) 833-840 (1998), 7A89

Numerical analysis of dynamic interaction in a cam-follower mechanism, Comput Model Simul in Eng **3**(4) 219-227 (Nov 1998), 7A90

Dynamics of a wheelset on roller rig, Vehicle Syst Dyn **30**(6) 409-430 (Dec 1998), 7A185

Dual-Number Methods in Kinematics, Statics and Dynamics (CRC Press, Boca Raton FL, 1999) 8R5

Generalized Serret-Andoyer transformation and applications for the controlled rigid body, Dyn Control **9**(1) 39-66 (Jan 1999), 8T80

Motion of the pendulum on an ellipse, Z Angew Math Mech **79**(1) 65-72 (1999), 8A82

Simplified variation of parameters approach to Euler's equations, J Appl Mech **66**(1) 273-276 (Mar 1999), 8A83

Stability of uniformly accelerated motions, J Appl Math Mech **62**(5) 671-675 (1998), 8A84

Control of a 1-dof juggling robot, Dyn Control **9**(1) 67-90 (Jan 1999), 8A422

Limitations of rigid body descriptions for heavy-duty diesel engine vibration, J Eng Gas Turbines Power **121**(2) 197-204 (Apr 1999), 8A1446

Elasticity studies of the critical thickness of an epilayer deposited on a compliant substrate, Acta Mat **47**(4) 1289-1296 (Mar 1999), 9A81

New necessary condition for the integrability of Hamiltonian systems with a 2D homogeneous potential, Physica D **128**(1) 53-69 (Apr 1999), 9A82

Non-integrability and continuation of fixed points of 2n-dimension perturbed twist maps, Physica D **128**(1) 70-86 (Apr 1999), 9A83

Transfer matrix method for transient response of nonlinear chainlike system (Chinese), J Vib Eng **12**(1) 47-54 (Mar 1999), 9T84

Dynamics of contact tasks in robotics - Part I: General model of robot interacting with environment, Mech Machine Theory **34**(6) 923-942 (Aug 1999), 9A510

Dynamics of contact tasks in robotics - Part II: Case study in dynamics of contact motion, Mech Machine Theory **34**(6) 943-972 (Aug 1999), 9A511

General strategy based on the Newton-Euler approach for the dynamic formulation of parallel manipulators, Mech Machine Theory **34**(6) 801-824 (Aug 1999), 9A513

Numerical algorithm for solving manipulator forward dynamics, Mech Machine Theory **34**(6) 843-855 (Aug 1999), 9A517

Selected papers from the NATO advanced study institute on computational methods in mechanisms, June 16-28,1997, in Varna, Bulgaria, Mech Machine Theory **34**(5) 665-800 (Jul 1999), 9T1081

Dynamics of a particle on a smooth vibrating surface, J Appl Math Mech **62**(6) 893-900 (1999), 10A114

Stability of quasi-static slip in a single dof elastic system with rate and state dependent friction, J Mech Phys Solids **47**(6) 1207-1218 (Jun 1999), 10A115

Kahan's integrator and the free rigid body dynamics, J Comput Math **17**(2) 221-224 (Mar 1999), 11A132

Kinematics and dynamics of multibody system based on natural and joint coordinates using velocity transformations, J Theor Appl Mech **36**(4) 905-918 (1998), 11A133

Dynamics of non-smooth mechanical system, Machine Dyn Prob **23**(1) 25-37 (1999), 12T97

Equations of motion of a rigid body without parametrization of rotations, J Appl Math Mech **63**(1) 25-30 (1999), 12A98

Finite element simulation of the motion of a rigid body in a fluid with free surface, Comput Methods Appl Mech Eng **175**(1-2) 99-120 (Jun 1999), 12A99

Perturbed motions of a rotating symmetric gyrostat, Eng Trans **46**(3-4) 271-289 (1998), 12A100

Relative nonsymmetry effects of the super (generalized) nonlinear velocity, time of a particle and its kinetic formulae for followed body, Appl Math Mech **20**(3) 276-281 (Mar 1999), 12A101

Second-order constraints for equations of motion of constrained systems, IEEE/ASME Trans Mechatronics **3**(3) 240-248 (Sep 1998), 12A102

Equations of motion of constrained mechanical systems: Given force depends on constraint force, Mechatronics **9**(4) 411-428 (Jun 1999), 12T113

150F. Multibody and variable mass systems

Modeling of the wheel vehicles, Prikl Mekh (Appl Mech) **34**(1) 103-110 (1998), 1A95

Application of the absolute nodal coordinate formulation to multibody system dynamics, J Sound Vib **214**(5) 833-851 (Jul 1998), 1A98

Finite element analysis of flexible multibody systems with fuzzy parameters, Comput Methods Appl Mech Eng **160**(3-4) 223-243 (Jul 1998), 1A99

Integration method for the dynamics equation of relative motion of variable mass nonlinear nonholonomic system, Appl Math Mech **19**(5) 479-488 (May 1998), 1A100

Kane's formalism and lie group theory, Mech Res Commun **25**(4) 385-393 (Jul-Aug 1998), 1T101

Kinematic and kinetic derivatives in multibody system analysis, Mech Struct Machines **26**(2) 145-173 (1998), 1A102

Navigation and control of the motion of a riderless bicycle, Comput Methods Appl Mech Eng **160**(1-2) 193-202 (Jul 1998), 1A103

Multibody effect on nutational dynamics of spin-stabilized satellites with fuel sloshing, J Guidance Control Dyn **21**(4) 566-571 (Jul-Aug 1998), 1A184

Computer implementation of the absolute nodal coordinate formulation for flexible multibody dynamics, Nonlinear Dyn **16**(3) 293-306 (Jul 1998), 2A137

Conservation principles for systems with a varying number of dof, J Appl Mech **65**(3) 719-726 (Sep 1998), 2A138

Solution of the nonlinear equilibrium position problem in multibody systems (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 203-223 (1998), 2A139

Efficient dynamic constraints for animating articulated figures, Multibody Syst Dyn **2**(2) 89-114 (Jun 1998), 3A94

Efficient method for synthesis of planar multibody systems including shape of bodies as design variables, Multibody Syst Dyn **2**(2) 115-143 (Jun 1998), 3A95

Modeling of elastically coupled bodies - Part I: General theory and geometric potential function method, J Dyn Syst Meas Control **120**(4) 496-500 (Dec 1998), 3A96

Modeling of elastically coupled bodies - Part II: Exponential and generalized coordinate methods, J Dyn Syst Meas Control **120**(4) 501-506 (Dec 1998), 3A97

Representation for planar point contact joints in the multibody mechanical bond graph library, J Syst Control Eng **212**(I4) 305-312 (1998), 3A369

Dynamic effects in statically stable walking machines, J Intelligent & Robotic Syst **23**(1) 71-85 (Sep 1998), 3A455

Critical study of the use of the generalized impulse-momentum balance equations in flexible multibody systems, J Sound Vib **217**(3) 523-545 (Oct 1998), 4A95

Exact solutions for transient wave propagation in a 2D array of particles, Z Angew Math Mech **78**(11) 759-770 (1987), 4A96

Kinematic model of a multi-beam structure undergoing large elastic displacements and rotations - Part 2: Kinematic model of an open chain, Mech Machine Theory **34**(2) 223-242 (Feb 1999), 4A97

Multibody dynamics approach to the working mechanism of wheel loader, Strojnicky Casopis **49**(5) 354-371 (1998), 4A98

Unified variational model for the dynamics of perfect unilateral constraints, Eur J Mech A **17**(5) 819-842 (1998), 4A99

Dynamic simulation of Taipei EMU train, Vehicle Syst Dyn **30**(2) 143-167 (Aug 1998), 4A188

Nonlinear dynamic motion optimization and control of multibody systems, Mech Struct Machines **26**(4) 343-363 (1998), 5T79

Efficient implementation of the recursive approach to flexible multibody dynamics, Multibody Syst Dyn **2**(3) 227-252 (Sep 1998), 6A97

Contact mechanics in multibody systems, Multibody Syst Dyn **2**(4) 335-354 (Dec 1998), 6A234

Design optimization of multibody systems by sequential approximation, Multibody Syst Dyn **2**(4) 393-415 (Dec 1998), 6A360

Dynamic analysis tool for legged robots, Multibody Syst Dyn **2**(4) 369-391 (Dec 1998), 6A459

Design of energy preserving and decaying schemes for flexible, nonlinear multi-body systems, Comput Methods Appl Mech Eng **169**(1-2) 61-79 (Jan 1999), 7A91

Frictional impact analysis in open-loop multibody mechanical systems, J Mech Des **121**(1) 119-127 (Mar 1999), 7A92

Interference impact analysis of multibody systems, J Mech Des **121**(1) 128-135 (Mar 1999), 7A93

Synchronization of globally coupled phase oscillators: Singularities and scaling for general couplings, Physica D **125**(1-2) 1-46 (Jan 1999), 7A94

Stability analysis of Baumgarte constraint stabilization technique multibody dynamic systems, J Guidance Control Dyn **22**(1) 161-162 (Jan-Feb 1999), 7T97

Time domain modeling of a reciprocating engine, Mech Syst Signal Processing **13**(1) 169-178 (Jan 1999), 7A199

Order-N formulation and dynamics of multi-unit flexible space manipulators, Nonlinear Dyn **17**(4) 347-368 (Dec 1998), 7A409

Elements of Space Technology (Academic Press, San Diego CA, 1999) 8N9

Dynamics of rigid multibody systems with clearances in the joints, Mech Struct Machines **27**(1) 63-87 (1999), 8T85

Stability investigation of multibody spacecraft, Z Angew Math Mech **79**(3) 161-170 (1999), 8A286

Efficiency comparison of multibody dynamic analysis algorithms for real-time simulation, JSME Int J Ser C **41**(4) 813-821 (Dec 1998), 9A85

Forced vibration analysis of a nonlinear structure connected in series: Stability analysis based on the argument principle, JSME Int J Ser C **41**(3) 583-591 (Sep 1998), 9A86

Study on the simulation of flexible link mechanics: Development of a reduction method and two-node element including large displacement, JSME Int J Ser C **42**(1) 180-187 (Mar 1999), 9A87

Modeling, simulation and experimental verification of contact-impact dynamics in flexible mutli-body systems, J Sound Vib **221**(4) 709-732 (Apr 1999), 9A240

Global dynamical behavior of a three-body system with flexible connection in the gravitational field, Arch Appl Mech **69**(1) 47-54 (Feb 1999), 9A309

Flexible multibody dynamic simulation using optimal lumped inertia matrices, Comput Methods Appl Mech Eng **173**(1-2) 189-200 (Apr 1999), 10A116

Resonance processes in mechanical self-oscillation system with delay (Russian), Prikl Mekh (Appl Mech) **35**(2) 90-97 (1999), 10T140

Control of a parametrically excited flexible beam undergoing rotation and impacts, Multibody Syst Dyn **3**(1) 47-63 (Feb 1999), 11A134

Formulation of a class of higher pair joints in multibody systems using joint coordinates, Multibody Syst Dyn **3**(1) 21-45 (Feb 1999), 11A135

Motions, efforts, and actuations in constrained dynamic systems: A multilink closed chain example, J Robotic Syst **16**(7) 363-385 (Jul 1999), 11A136

Theoretical formula for calculating damping in the impact of two bodies in a multibody system, Proc Inst Mech Eng C **213**(C3) 211-216 (1999), 11A137

Multiple rigid-body reorientation using relative motion with constrained final system configuration, J Guidance Control Dyn **22**(3) 441-446 (May-Jun 1999), 11T382

Investigations for the dynamical analysis of human motion, Multibody Syst Dyn **3**(1) 1-20 (Feb 1999), 11A1636

Analysis of nonlinear multibody systems with elastic couplings, Multibody Syst Dyn **3**(2) 163-188 (May 1999), 12A103

Dynamics of spatial structure-varying rigid multibody systems, Arch Appl Mech **69**(4) 265-285 (May 1999), 12A104

Fully symbolic model of multibody systems containing flexible plates, Nonlinear Dyn **18**(4) 357-382 (Apr 1999), 12A105

Global recursive dynamics of articulated tree structures, Comput Mech **23**(4) 288-298 (May 1999), 12A106

Multibody dynamics of very flexible damped systems, Multibody Syst Dyn **3**(2) 109-136 (May 1999), 12A107

Dynamic simulation of general flexible multibody systems, Mech Struct Machines **27**(2) 217-251 (1999), 12A122

Robust control of two-link flexible manipulators using the µ-synthesis technique, J Vib and Control **5**(4) 559-576 (Jul 1999), 12A139

Dynamics of systems that include wings in autorotation, J Dyn Syst Meas Control **121**(2) 248-254 (Jun 1999), 12A170

Kinematics and the full minimal dynamic model of a 6-dof parallel robot manipulator, Nonlinear Dyn **18**(4) 339-356 (Apr 1999), 12T507

Systems with variable geometry: Concept and prospects, J Dyn Syst Meas Control **121**(2) 308-312 (Jun 1999), 12A536

150G. Deformable body dynamics

Complicated dynamics of heavy rigid bodies attached to deformable rods, Quart Appl Math **56**(3) 431-460 (Sep 1998), 1A104

Dynamic analysis and vibration control of a flexible slider-crank mechanism using PM synchronous servo motor drive, J Sound Vib **214**(4) 605-637 (Jul 1998), 1A131

Dynamic modeling and mode analysis of flexible-link, flexible-joint robots, Mech Machine Theory **33**(7) 1031-1044 (Oct 1998), 1A461

Space Vehicle Dynamics and Control (AIAA, MD, 1998) 2R5

Modeling of a flexible slewing link, J Vib Acoust **120**(4) 994-996 (Oct 1998), 2A140

Slew maneuver of flexible space structures using time FE analysis, AIAA J **36**(10) 1938-1940 (Oct 1998), 3A98

Critical study of the use of the generalized impulse-momentum balance equations in flexible multibody systems, J Sound Vib **217**(3) 523-545 (Oct 1998), 4A95

Kinematic model of a multi-beam structure undergoing large elastic displacements and rotations - Part I: Model of an isolated beam, Mech Machine Theory **34**(2) 205-222 (Feb 1999), 4A100

Evolution of a rotational motion of an elastic-rigid body about a fixed point in a gravitational field, Mech Res Commun **25**(6) 643-651 (Nov-Dec 1998), 5A80

Nonlinear dynamic analysis of cantilever whipping pipes, Proc Inst Mech Eng E **212**(E3) 133-149 (1998), 5A81

Structural flexibility transformation matrix for modeling open-kinematic chains with revolute and prismatic joints, J Sound Vib **218**(1) 45-63 (Nov 1998), 5A82

Steady state motions of shallow arch under periodic force with 1:2 internal resonance on the plane of physical parameters, Appl Math Mech **19**(7) 625-635 (Jul 1998), 5A151

Crashworthiness of Composite Thin-Walled Structural Components (Technomic, Lancaster PA, 1998) 6R3

Algorithm for an eigenvalues problem in the Earth rotation theory, J Comput Appl Math **101**(1-2) 243-254 (Jan 1999), 6A98

Dynamics of a rotating flexible manipulator with tip load, Acta Mech Solida Sinica **11**(4) 365-373 (1998), 6A99

Dynamics of Plates (Marcel Dekker, New York, 1998) 7R6

Effects of the release angle on the dynamics of deployment of a two-link satellite boom, Comput Model Simul in Eng **3**(4) 268-274 (Nov 1998), 7A95

Robust model for the discretization of flexible links based on cubic splines, Comput Model Simul in Eng **3**(4) 241-249 (Nov 1998), 7A96

Order-N formulation and dynamics of multi-unit flexible space manipulators, Nonlinear Dyn **17**(4) 347-368 (Dec 1998), 7A409

Vehicle dynamics simulations with coupled multibody and FE models, Finite Elements Anal Des **31**(4) 295-315 (Feb 1999), 8A25

Dynamic analysis of plates by boundary elements, Appl Mech Rev **52**(7) 213-236 (Jul 1999), 8A54

Progress in structural dynamics with stochastic parameter variations: 1987-1998, Appl Mech Rev **52**(5) 177-197 (May 1999), 8A110

Optimization of mechanisms using direct differentiation and a multipoint approximation method, Eng Optim **31**(2) 141-160 (Dec 1998), 8A945

Controlling the attitude maneuvers of flexible spacecraft by using time-optimal and fuel-efficient shaped inputs, J Sound Vib **221**(4) 545-565 (Apr 1999), 9A88

Configuration dependent eigenfrequencies for a two-link flexible manipulator: Experimental verification, J Sound Vib **222**(2) 191-207 (Apr 1999), 10A117

Vibration control of a four-bar mechanism with a flexible coupler link, J Sound Vib **222**(2) 171-189 (Apr 1999), 10A118

Modern Methods of Analytical Mechanics and Their Applications (Springer-Verlag, Vienna, 1998) 11R12
Bayesian approach to guidance in the presence of glint, J Guidance Control Dyn **22**(3) 478-485 (May-Jun 1999), 11T379
Tipping loads of mobile cranes with flexible booms, J Sound Vib **223**(4) 645-657 (Jun 1999), 12A108

150H. Stability of motion

Local stability criterion for the Saturnian ring system, Planet Space Sci **46**(6-7) 615-628 (Jun-Jul 1998), 1A94
Algorithm for response and stability of large order nonlinear systems: Application to rotor systems, J Sound Vib **214**(4) 695-723 (Jul 1998), 1A105
Conditions of practical μ-stability of quasilinear system with delay, Prikl Mekh (Appl Mech) **34**(3) 104-109 (1998), 1A106
Discrete version of the Jacobian conjecture of dynamical systems, Nonlinear Anal **34**(5) 779-789 (Dec 1998), 1T107
Stability in the presence of singular perturbations, Nonlinear Anal **34**(6) 817-827 (Dec 1998), 1T108
Stability of nonlinear differential equations with distributed delay, Nonlinear Anal **34**(7) 1081-1095 (Dec 1998), 1T109
Stability and bifurcation of rotor motion in a magnetic bearing, J Sound Vib **214**(5) 793-803 (Jul 1998), 1A163
ROSETTA mission: Satellite orbits round a cometary nucleus, Planet Space Sci **46**(6-7) 649-671 (Jun-Jul 1998), 1A301
Measure of stability for mobile manipulators with application to heavy-duty hydraulic machines, J Dyn Syst Meas Control **120**(3) 360-370 (Sep 1998), 1A465
Modal interaction, stability and nonlinear dynamics of a model two dof mechanical system performing snap-through motion, Nonlinear Dyn **16**(3) 239-257 (Jul 1998), 2T141
Stability behavior of rotating composite shafts under axial compressive loads, Composite Struct **41**(3-4) 253-263 (Mar-Apr 1998), 3A99
Stability and control of a parametrically excited rotating beam, J Dyn Syst Meas Control **120**(4) 462-470 (Dec 1998), 3A421
Oscillations of a pendulum with a periodically varying length and a model of swing, Int J Non-Linear Mech **34**(1) 105-109 (Jan 1999), 4A101
Stabilization of a flexible beam with a tip mass, SIAM J Control Optim **36**(6) 1962-1986 (Nov 1998), 4A404
Stability of gyroscopic systems near vanishing eigenvalues, J Appl Mech **65**(4) 1062-1064 (Dec 1998), 5T85
Analysis of nonlinear dynamics and bifurcations of a double pendulum, J Sound Vib **217**(4) 691-736 (Nov 1998), 5A86
Fluid damping controlled instability of tubes in crossflow, J Sound Vib **217**(5) 883-907 (Nov 1998), 5A245
Simplified framework for string stability analysis of automated vehicles, Vehicle Syst Dyn **30**(5) 375-405 (Nov 1998), 5A386
Long road to solution of the railway hunting and curving problems, Proc Inst Mech Eng F **212**(F3) 219-226 (1998), 6A100
Movement stabilization of the system with nonholonomic constraints (Russian), Prikl Mekh (Appl Mech) **34**(7) 90-100 (1998), 6T101
Stability and Liapunov's matrix functions method in dynamical systems (Russian), Prikl Mekh (Appl Mech) **34**(10) 144-152 (1998), 6A102
Workholding stability in shoe centerless grinding, J Manuf Sci Eng **121**(1) 41-48 (Feb 1999), 6A103
Stochastic stability of quasi-non-integrable-Hamiltonian systems, J Sound Vib **218**(5) 769-789 (Dec 1998), 6A118
Control of a rotary inverted pendulum, Appl Math Lett **12**(2) 131-134 (Mar 1999), 6A398
Multicriteria optimization of parametrically excited systems against loss of dynamic stability, Struct Optim **16**(4) 269-274 (Dec 1998), 6A1014
Surface instabilities in a Mooney-Rivlin body with frictional boundary conditions, Int J Adhesion Adhesives **18**(6) 413-419 (Dec 1998), 6A1070
Stability analysis of Baumgarte constraint stabilization technique multibody dynamic systems, J Guidance Control Dyn **22**(1) 161-162 (Jan-Feb 1999), 7T97
Stability of 1D inelastic collision sequences of four balls, Physica D **125**(3-4) 183-200 (Jan 1999), 7A98
Stabilization and control of the motion of a rolling disk by using two rotors fixed along its axis, Comput Methods Appl Mech Eng **169**(1-2) 107-122 (Jan 1999), 7A99
Asymptotic 2_p-moment stability of stochastic linear systems, Mech Res Commun **26**(1) 21-29 (Jan-Feb 1999), 7T115
Dynamic rollover threshold of articulated freight vehicles, Heavy Vehicle Syst **5**(3-4) 300-322 (1998), 7A184
Optimum quality index for the stability of in-parallel planar platform devices, J Mech Des **121**(1) 15-20 (Mar 1999), 7A408
Comments on stability properties of conservative gyroscopic systems, J Appl Mech **66**(1) 272-273 (Mar 1999), 8A86
Dynamical stability of the hovering magnetic top, Physica D **126**(3-4) 214-224 (Feb 1999), 8A87
Lyapunov exponents and stochastic stability of quasi-integrable-Hamiltonian systems, J Appl Mech **66**(1) 211-217 (Mar 1999), 8A88
Stability of periodic Hamiltonian systems with multiple fourth-order resonance, J Appl Math Mech **62**(5) 699-703 (1998), 8A89
Global geometric structure of the dynamics of the elastic pendulum, Nonlinear Dyn **18**(1) 51-68 (Jan 1999), 8A95
Elements of Applied Bifurcation Theory, Second Edition (Springer-Verlag, New York, 1998) 9N11
Analytical stability prediction and design of variable pitch cutters, J Manuf Sci Eng **121**(2) 173-178 (May 1999), 9A89
Centerless grinding systems stability, J Manuf Sci Eng **121**(2) 157-162 (May 1999), 9A90
Elementary result in the stability theory of time-invariant nonlinear discrete dynamical systems, Appl Math Comput **102**(1) 35-49 (Jul 1999), 9A91
Stability analysis of two-stage backward slow-speed platform, Machine Dyn Prob **22** 115-136 (1998), 9A92
Stability of linear constrained dynamical systems with modeling uncertainties, J Chinese Soc Mech Eng **20**(1) 87-95 (Feb 1999), 9A93
Chatter frequency in turning considering tool compliance and wearland, J Manuf Sci Eng **121**(2) 307-311 (May 1999), 9A199
Resonances of parametric vibration with forced vibration of the stator system of hydroelectric-generator stimulated by electromagnetism, Acta Mech Solida Sinica **12**(1) 63-75 (1999), 9A721
Stability of quasi-static slip in a single dof elastic system with rate and state dependent friction, J Mech Phys Solids **47**(6) 1207-1218 (Jun 1999), 10A115
Connected practical stability of motion of the systems with delay (Russian), Prikl Mekh (Appl Mech) **35**(1) 92-97 (1999), 10A119
Motion stability of the systems with nonprecise value of parameters (Russian), Prikl Mekh (Appl Mech) **35**(2) 105-109 (1999), 10A120
A parametric study of the lateral stability of a rail bogie on a roller rig, Proc Inst Mech Eng F **213**(F1) 39-47 (1999), 10A121
Stability of the set of equilibrium positions of autonomous mechanical systems with sliding friction, J Appl Math Mech **62**(6) 863-871 (1999), 10A122
Stability of motion of a gyrostat about a fixed point under the action of non-symmetric fields, Eur J Mech A **18**(2) 313-318 (Mar-Apr 1999), 10A125
Stability analysis of a slider-crank mechanism due to the existence of two-component parametric resonance, Int J Solids Struct **36**(28) 4225-4250 (Oct 1999), 10A1053
Modern Methods of Analytical Mechanics and Their Applications (Springer-Verlag, Vienna, 1998) 11R12
Examples of singular nonholonomic reduction, Reports Math Phys **42**(1-2) 231-247 (Aug-Oct 1998), 11A138
Lyapunov characterization of robust stabilization, Nonlinear Anal **37**(7) 813-840 (Sep 1999), 11T139
Nonholonomic stability aspects of piecewise holonomic systems, Reports Math Phys **42**(1-2) 71-100 (Aug-Oct 1998), 11A140
Routh's sphere, Reports Math Phys **42**(1-2) 47-70 (Aug-Oct 1998), 11A141
Stability analysis for multi-parameter linear periodic systems, Arch Appl Mech **69**(3) 160-180 (Apr 1999), 11A142
Example for the orbital stability of permanently disturbed non-smooth motions, Z Angew Math Mech **79**(6) 389-397 (1999), 12A109

150I. Gyrodynamics

Conservative motion of discrete, tetrahedral tops and gyroscopes, Appl Math Model **22**(1-2) 57-68 (Jan-Feb 1998), 1A110
Motion of a fast spinning disc which comes out from the limiting case $\gamma_0 = 0$, Comput Methods Appl Mech Eng **161**(1-2) 67-76 (Aug 1998), 1A111
Multibody effect on nutational dynamics of spin-stabilized satellites with fuel sloshing, J Guidance Control Dyn **21**(4) 566-571 (Jul-Aug 1998), 1A184
Conservative motion of a discrete, hexahedral gyroscope, Comput Methods Appl Mech Eng **161**(3-4) 305-313 (Aug 1998), 2A142
Jyroscopic wobbling of plates and shells under complex movement (Russian), Prikl Mekh (Appl Mech) **33**(7) 52-56 (1997), 2T143
Optimal design and noise consideration of micromachined vibrating rate gyroscope with modulated integrative differential optical sensing, J Microelectromechanical Syst **7**(3) 329-338 (Sep 1998), 2A548
Design of an electrostatically excited H-type resonant gyroscope suitable for fabrication using the LIGA process, Proc Inst Mech Eng D **212**(D4) 319-332 (1998), 3A100
Integration of the equations of a rotational motion of a rigid body in quaternion algebra: The Euler case, J Appl Math Mech **62**(2) 193-200 (1998), 3A101
Distributed rotor dynamics, J Syst Control Eng **212**(I4) 249-265 (1998), 3A176
Sufficient conditions of technical stability of oscillations of two coupled gyrostates carrying traveling flywheels (Russian), Prikl Mekh (Appl Mech) **34**(6) 104-112 (1998), 4A86
State-of-art and development trends of fiber optic gyroscope (Chinese), J Shanghai Jiaotong Univ **32**(8) 126-129 (Aug 1998), 4A102
Motion of a symmetric gyrostat in a Newtonian force field, J Appl Math Mech **62**(3) 473-475 (1998), 5A83
Rolling of a wheel with a pneumatic tire on a plane, J Appl Math Mech **62**(3) 359-369 (1998), 5A84
Stability of gyroscopic systems near vanishing eigenvalues, J Appl Mech **65**(4) 1062-1064 (Dec 1998), 5T85
Control of chaotic motion in a spinning spacecraft with a circumferential nutational damper, Nonlinear Dyn **17**(3) 269-284 (Nov 1998), 6A106
Spinning Tops: A Course on Integrable Systems (Cambridge UP, New York, 1999) 8N10
Comments on stability properties of conservative gyroscopic systems, J Appl Mech **66**(1) 272-273 (Mar 1999), 8A86
Dynamical stability of the hovering magnetic top, Physica D **126**(3-4) 214-224 (Feb 1999), 8A87
Asymmetric body spinning motion with energy dissipation and constant body-fixed torques, J Guidance Control Dyn **22**(2) 322-328 (Mar-Apr 1999), 8T90
Spinning motion of the hovering magnetic top, Physica D **126**(3-4) 225-235 (Feb 1999), 8A91
Application of strain energy analysis to balancing of an initial bend rotor (Chinese), J Vib Eng **12**(1) 133-138 (Mar 1999), 9T94
Design optimization of passive gyroscopic damper: Stability degree maximization, JSME Int J Ser C **40**(4) 643-651 (Dec 1997), 9A119
Measurement, Instrumentation, and Sensors Handbook (CRC Press, Boca Raton FL, 1999) 10N9
Design and analysis of a microgyroscope with sol-gel piezoelectric plate, Smart Mat Struct **8**(2) 212-217 (Apr 1999), 10A123
Gyroscopic coupling in holonomic Lagrangian dynamical systems, J Appl Mech **66**(2) 552-556 (Jun 1999), 10T124
Stability of motion of a gyrostat about a fixed point under the action of non-symmetric fields, Eur J Mech A **18**(2) 313-318 (Mar-Apr 1999), 10A125
Two linear invariant correlations in the problem of the body motion in magnetic field (Russian), Prikl Mekh (Appl Mech) **35**(2) 98-104 (1999), 10T126
Nonlinear oscillations in Coriolis based gyroscopes, Model Ident Control **20**(1) 27-62 (Jan 1999), 12A110
Dynamics of systems that include wings in autorotation, J Dyn Syst Meas Control **121**(2) 248-254 (Jun 1999), 12A170

150K. Nonlinear dynamics (incl chaos, bifurcation, fractals)

Suppression of chaos by means of bounded excitations in an inverted pendulum, SIAM J Appl Math **58**(4) 1116-1127 (Aug 1998), 1A97
Discrete version of the Jacobian conjecture of dynamical systems, Nonlinear Anal **34**(5) 779-789 (Dec 1998), 1T107
Analytical criterion for chaotic dynamics in flexible satellites with nonlinear controller damping, J Guidance Control Dyn **21**(4) 558-565 (Jul-Aug 1998), 1A112
Bifurcations of stationary states and periodic motions in dynamic systems with simplest symmetry: Survey, Prikl Mekh (Appl Mech) **34**(1) 3-30 (1998), 1A113
Coincidence degree and periodic solutions of Duffing equations, Nonlinear Anal **34**(3) 443-460 (Nov 1998), 1T114
Index theories for second order Hamiltonian systems, Nonlinear Anal **34**(4) 585-592 (Nov 1998), 1T115
Instabilities of conical flows causing steady bifurcations, J Fluid Mech **366** 33-85 (Jul 1998), 1A116
Many periodic solutions for pendulum-type equations, Nonlinear Anal **34**(5) 687-699 (Dec 1998), 1T117
Periodic solutions of autonomous Hamiltonian systems via degree for S^1-equivariant gradient maps, Nonlinear Anal **34**(4) 537-569 (Nov 1998), 1T118
Study of nonlinear dynamics of the trawl systems, Prikl Mekh (Appl Mech) **34**(2) 100-107 (1998), 1A119
Subharmonic bifurcations in a pendulum parametrically excited by a non-harmonic peturbation, Chaos Solitons Fractals **9**(6) 995-1003 (Jun 1998), 1A120
Transitions to complex flows in the Ekman-Couette layer, J Fluid Mech **366** 311-331 (Jul 1998), 1A1198
Diffusion induced chaos in a closed loop thermosyphon, SIAM J Appl Math **58**(4) 1072-1093 (Aug 1998), 1A1297
Nonlinear Dynamics: Exploration Through Normal Forms (Wiley, New York, 1998) 2R4
Modal interaction, stability and nonlinear dynamics of a model two dof mechanical system performing snap-through motion, Nonlinear Dyn **16**(3) 239-257 (Jul 1998), 2T141
Analysis of Hopf and Takens-Bogdanov bifurcations in a modified van der Pol-Duffing oscillator, Nonlinear Dyn **16**(4) 369-404 (Aug 1998), 2T144
Application of IHB technique to the analysis of nonlinear oscillations and bifurcations, J Sound Vib **215**(1) 35-46 (Aug 1998), 2A145
Application of secondary bifurcations to large-amplitude limit cycles in mechanical systems, J Sound Vib **215**(1) 183-188 (Aug 1998), 2T146
Application of wavelet transform to bifurcation and chaos study, Appl Math Mech **19**(6) 593-599 (Jun 1998), 2A147
Construction of dynamically equivalent time-invariant forms for time-periodic systems, Nonlinear Dyn **16**(3) 203-221 (Jul 1998), 2T148
Dissipative nonlocal oscillator, Nonlinear Dyn **16**(4) 307-320 (Aug 1998), 2A149
Invariant density of a chaotic dynamical system with small noise, Physica D **120**(3-4) 255-272 (Sep 1998), 2A150
Joint stationary probability density function of nonlinear dynamic systems, Acta Mech **130**(1-2) 29-39 (1998), 2A151
Model system for the behavior of two nonlinearly coupled oscillators, J Sound Vib **215**(2) 313-330 (Aug 1998), 2A152
Nonlinear dynamics of the follower-load double pendulum with added support-excitation, J Sound Vib **215**(1) 125-142 (Aug 1998), 2A153
Nonlinear vibration by a new method, J Sound Vib **215**(3) 475-487 (Aug 1998), 2A154
Nonlinear vibrations of fractionally damped systems, Nonlinear Dyn **16**(4) 321-336 (Aug 1998), 2A155
Resonant layers in nonlinear dynamics, J Appl Mech **65**(3) 727-736 (Sep 1998), 2A156
Sensitive dependence on initial conditions of strongly nonlinear periodic orbits of the forced pendulum, Nonlinear Dyn **16**(3) 223-237 (Jul 1998), 2T157
Stochastic resonance in on-off intermittency, Acta Phys Polonica B **B29**(6) 1589-1598 (Jun 1998), 2A158
Threshold value for diagnosis of chaotic nature of the data obtained in nonlinear dynamic analysis, Appl Math Mech **19**(6) 513-520 (Jun 1998), 2A159
Deterministic and stochastic response of nonlinear coupled bending-torsion modes in a cantilever beam, Nonlinear Dyn **16**(3) 259-292 (Jul 1998), 2A189
Numerical dimension-reduction methods for nonlinear shell vibrations, J Sound Vib **215**(3) 527-545 (Aug 1998), 2A230
Finite element modeling of a rotor shaft rolling bearings system with consideration of bearing nonlinearities, J Vib and Control **4**(5) 541-602 (Sep 1998), 2A243
Dynamics of a rotating system with a nonlinear eddy-current damper, J Vib Acoust **120**(4) 848-853 (Oct 1998), 2A263
Nonlinear periodic response of engine accessory drives with dry friction tensioners, J Vib Acoust **120**(4) 909-916 (Oct 1998), 2A264
Identifying Coulomb and viscous friction from free-vibration decrements, Nonlinear Dyn **16**(4) 337-347 (Aug 1998), 2A267
Helical wave oscillations in a row of cylinders in a cross-flow, J Fluids Struct **12**(5) 591-613 (Jul 1998), 2A334
Three-dimensional elastic-plastic fractal analysis of surface adhesion in microelectromechanical systems, J Trib **120**(4) 808-813 (Oct 1998), 2A1027
Effect of slow-drift loads on nonlinear dynamics of spread mooring systems, J Offshore Mech Arctic Eng **120**(4) 201-211 (Nov 1998), 2A1213
Fractal generation of surface area of porous media, Stochastic Hydrology Hydraul **12**(2) 83-96 (Jul 1998), 2T1436
Oscillations and Waves (Springer-Verlag, New York, 1997) 3R10
Associative memory based on parametrically coupled chaotic elements, Physica D **121**(3-4) 344-366 (Oct 1998), 3A102
Correlation dimension for two experimental time series, Meccanica **33**(4) 381-396 (Aug 1998), 3A103
Cycling chaos: Its creation, persistence and loss of stability in a model of nonlinear magnetoconvection, Physica D **122**(1-4) 134-154 (Nov 1998), 3A104
Direct and inverse problems encountered in vibro-impact oscillations of a discrete system, J Sound Vib **216**(2) 227-250 (Sep 1998), 3A105
Maximal attractor for the system of a Landau-Ginzburg theory for structural phase transitions in shape memory alloys, Physica D **121**(3-4) 252-262 (Oct 1998), 3A106
Modeling of friction oscillators, J Sound Vib **216**(3) 435-459 (Sep 1998), 3A107
Nonstationary effects on safe basins of a forced softening Duffing oscillator, Acta Mech Solida Sinica **11**(3) 253-260 (1998), 3A108
Order-preserving random dynamical systems: Equilibria, attractors, applications, Dyn Stability Syst **13**(3) 265-280 (1998), 3T109

Parametric homogeneity and non-classical self-similarity - II: Some applications, Acta Mech **131**(1-2) 47-67 (1998), 3A110

Phase-space prediction of chaotic time series, Dyn Stability Syst **13**(3) 219-236 (1998), 3A111

Synchronization in lattices of coupled oscillators with Neumann-periodic boundary conditions, Dyn Stability Syst **13**(3) 237-264 (1998), 3T112

Generalized Bolotin's method for stability limit determination of parametrically excited systems, J Sound Vib **216**(5) 851-863 (Oct 1998), 3A114

Relative chaos in gravitating systems with massive center, Physica D **122**(1-4) 241-253 (Nov 1998), 3A272

Stability and control of a structurally nonlinear aeroelastic system, J Guidance Control Dyn **21**(5) 718-725 (Sep-Oct 1998), 3A422

Wavelet and chaos analysis of irregularities of vortex shedding, Mech Res Commun **25**(5) 583-591 (Sep-Oct 1998), 3T1132

Application of extended state space to nonlinear ship rolling, Ocean Eng **26**(3) 227-240 (Mar 1999), 3A1173

Bifurcation analysis of eigenstructure assignment control in a simple nonlinear aircraft model, J Guidance Control Dyn **21**(5) 792-798 (Sep-Oct 1998), 3T1181

Dynamics: Numerical Explorations: Second, Revised, and Enlarged Edition (Springer-Verlag, New York, 1998) 4R3

Analysis of Hopf bifurcation associated with a two-fold zero eigenvalue - Part 1: Autonomous system, J Vib Acoust **121**(1) 101-104 (Jan 1999), 4A103

Analysis of Hopf bifurcation associated with a two-fold zero eigenvalue - Part 2: Nonautonomous system, J Vib Acoust **121**(1) 105-109 (Jan 1999), 4A104

Applying chaos control in periodic windows, Chaos Solitons Fractals **9**(8) 1297-1305 (Aug 1998), 4A105

Bifurcation of a two-dof nonlinear vibrating system subject to parametric excitation (Chinese), J Xi'an Jiaotong Univ **32**(10) 83-87 (1998), 4A106

Co-existing attractors of impact oscillator, Chaos Solitons Fractals **9**(8) 1439-1443 (Aug 1998), 4A107

Computational techniques for nonlinear dynamics in multiple friction oscillators, Comput Methods Appl Mech Eng **163**(1-4) 373-382 (Sep 1998), 4A108

Conserved quantities from non-Noether symmetries without alternative Lagrangians, Int J Non-Linear Mech **34**(2) 387-390 (Mar 1999), 4T109

Diffusion of a passive scalar from a no-slip boundary into a 2D chaotic advection field, J Fluid Mech **372** 119-163 (Oct 1998), 4A110

Effect of two-to-one internal resonances in a nonlinearly restrained fluid valve, J Vib Acoust **121**(1) 59-63 (Jan 1999), 4A111

Effects of multi global bifurcations on basin organization, catastrophes and final outcomes in a driven nonlinear oscillator at the 2D-subharmonic resonance, Nonlinear Dyn **17**(1) 41-59 (Sep 1998), 4T112

Exact numerical methods in dynamical systems theory, Chaos Solitons Fractals **9**(8) 1339-1358 (Aug 1998), 4A113

Experimental and numerical analysis of nonlinear phenomena in a stochastically excited beam system with impact, Chaos Solitons Fractals **9**(8) 1409-1428 (Aug 1998), 4A114

Nonlinear oscillations with multiple resonant or non-resonant forcing terms, Int J Non-Linear Mech **34**(1) 27-34 (Jan 1999), 4A115

Nonlinear spring resistance and friction damping of frictional constraint having 2D motion, J Sound Vib **217**(1) 127-143 (Oct 1998), 4A116

Properties of 2D radial fractal aggregation (Chinese), J Huazhong Univ Sci Tech **26**(7) 1-3 (Jul 1998), 4A117

Realizing secure communication by using chaos of Generalized Henon map (Chinese), J Shanghai Jiaotong Univ **32**(8) 45-48 (Aug 1998), 4A118

Response of forced vibration of bilinear hysteretic oscillator (Chinese), J Xi'an Jiaotong Univ **32**(10) 35-38 (1998), 4A119

Symbolic computation of local stability and bifurcation surfaces for nonlinear time-periodic systems, Nonlinear Dyn **17**(1) 1-21 (Sep 1998), 4A120

Transitions in a nonlinear second-order system, Int J Non-Linear Mech **34**(2) 231-245 (Mar 1999), 4A121

Viscous fingering in percolation cluster (Chinese), J Huazhong Univ Sci Tech **26**(8) 61-63 (Aug 1998), 4A122

Mode interactions for a weakly nonlinear beam equation, Nonlinear Dyn **17**(1) 23-40 (Sep 1998), 4A142

Regular orbits exhibiting multiple impact characteristics from a cracked beam under sinusoidal excitation, Chaos Solitons Fractals **9**(9) 1473-1480 (Sep 1998), 4A147

Stability analysis of a circularly towed cable-body system, J Sound Vib **217**(3) 435-452 (Oct 1998), 4A152

Analysis of subharmonic resonance of moderately thick antisymmetric angle-ply laminated plates by using method of multiple scales, J Sound Vib **217**(3) 467-484 (Oct 1998), 4A154

Steady-state dynamic behavior of a flexible rotor with auxiliary support from a clearance bearing, J Vib Acoust **121**(1) 78-83 (Jan 1999), 4A175

Effect of system nonlinearities on locomotive bogie hunting stability, Vehicle Syst Dyn **29**(6) 365-384 (Jun 1998), 4A189

Critical wave number for the Planar Benard Problem is unique, Int J Non-Linear Mech **34**(2) 221-229 (Mar 1999), 4A232

Response spectral densities and identification of a randomly excited nonlinear squeeze film oscillator, Mech Syst Signal Processing **12**(5) 693-711 (Sep 1998), 4A359

Dynamic bifurcation during high-rate planar extension of a thin rectangular block, Eur J Mech A **17**(5) 709-724 (1998), 4A573

Modeling the aggregation and break-up of fractal aggregates in a shear flow, Appl Sci Res **59**(2-3) 255-268 (1997), 4A1113

Numerical investigation of flow structure and bifurcation phenomena of confined plane twin-jet flows, Phys Fluids **10**(11) 2910-2921 (Nov 1998), 4A1186

Simulations of a randomly advected passive scalar field, Phys Fluids **10**(11) 2867-2884 (Nov 1998), 4T1228

Influence of the fractal scanning path on the temperature field of the layer in material increase manufacturing (Chinese), J Huazhong Univ Sci Tech **26**(8) 32-34 (Aug 1998), 4A1306

Classical Dynamics: A Contemporary Approach (Cambridge UP, New York, 1998) 5R3

Probability and statistics in engineering design, Proc Inst Mech Eng J Aerospace Eng **212**(G3) 149-212 (1998), 5A64

Analysis of nonlinear dynamics and bifurcations of a double pendulum, J Sound Vib **217**(4) 691-736 (Nov 1998), 5A86

Application of homotopy analysis method in nonlinear oscillations, J Appl Mech **65**(4) 914-922 (Dec 1998), 5A87

Force-state mapping method of a chaotic dynamical system, J Sound Vib **218**(3) 405-418 (Dec 1998), 5A88

Forced vibration of continuous system with unsymmetrical collision characteristics, Nonlinear Dyn **17**(2) 141-157 (Oct 1998), 5A89

Higher order normal form and period averaging, J Sound Vib **217**(5) 795-806 (Nov 1998), 5A90

Instantaneous Lyapunov exponent and its application to chaotic dynamical systems, J Sound Vib **218**(3) 389-403 (Dec 1998), 5A91

Invariants of chaotic attractor in a nonlinearly damped system, J Appl Mech **65**(4) 875-879 (Dec 1998), 5A92

Lienard systems, limit cycles, Melnikov theory, and the method of slowly varying amplitude and phase, J Sound Vib **217**(4) 790-793 (Nov 1998), 5T93

Multiple scale analysis for divergence-Hopf bifurcation of imperfect symmetric systems, J Sound Vib **218**(3) 527-539 (Dec 1998), 5A94

Nonlinear dynamics and chaos control of a damped satellite with partially-filled liquid, J Sound Vib **217**(5) 807-825 (Nov 1998), 5A95

Nonuniform cell partition for the analysis of nonlinear stochastic systems, J Appl Mech **65**(4) 867-869 (Dec 1998), 5A96

Phase-locking and bifurcations of the sinusoidally-driven double scroll circuit, Nonlinear Dyn **17**(2) 119-139 (Oct 1998), 5T97

Preliminary design of differentiated compliance anchoring systems, J Offshore Mech Arctic Eng **121**(1) 9-15 (Feb 1999), 5A98

Stochastic Hopf bifurcation of quasi-nonintegrable-Hamiltonian systems, Int J Non-Linear Mech **34**(3) 437-447 (May 1999), 5A99

Subcritical Hopf bifurcation at phonation onset, J Sound Vib **218**(2) 344-349 (Nov 1998), 5T100

Subharmonic bifurcation of a viscoelastic circular cylindrical shell, Nonlinear Dyn **17**(2) 159-171 (Oct 1998), 5A101

Subharmonic response of a quasi-isochronous vibro-impact system to a randomly disordered periodic excitation, Nonlinear Dyn **17**(2) 173-186 (Oct 1998), 5T102

Van der Pol's oscillator under delayed feedback, J Sound Vib **218**(2) 333-339 (Nov 1998), 5A113

Nonlinear dynamics of a slender beam carrying a lumped mass with principal parametric and internal resonances, Int J Non-Linear Mech **34**(3) 515-529 (May 1999), 5A123

Numerical and experimental analysis of a continuous overhung rotor undergoing vibro-impacts, Int J Non-Linear Mech **34**(3) 415-435 (May 1999), 5A150

Nonlinear oscillator concept for 1D pulsating detonations, Shock Waves **8**(6) 351-359 (Dec 1998), 5T238

Experimental validation of reduction methods for nonlinear vibrations of distributed-parameter systems: Analysis of a buckled beam, Nonlinear Dyn **17**(2) 95-117 (Oct 1998), 5A561

Stochastic vibration model of gear transmission systems considering speed-dependent random errors, Nonlinear Dyn **17**(2) 187-203 (Oct 1998), 5A850

Natural convection in a horizontal concentric cylindrical annulus: Oscillatory flow and transition to chaos, J Fluid Mech **375** 179-202 (Nov 1998), 5A1193

From Instability to Intelligence: Complexity and Predictability in Nonlinear Dynamics (Springer-Verlag, Berlin, 1997) 6R4

Differential quadrature method: Application to initial-boundary-value problems, J Sound Vib **218**(4) 573-585 (Dec 1998), 6A69

Bifurcation analyses in the parametrically excited vibrations of cylindrical panels, Nonlinear Dyn **17**(3) 205-225 (Nov 1998), 6A104

Continuous Poincare-like cell mapping method and its application to nonlinear dynamics analysis of a bearing-rotor system, Trib Int **31**(7) 369-375 (Jul 1998), 6A105

Control of chaotic motion in a spinning spacecraft with a circumferential nutational damper, Nonlinear Dyn **17**(3) 269-284 (Nov 1998), 6A106

Degenerated Hopf bifurcations in a stochastically disturbed nonlinear system, J Sound Vib **219**(2) 359-369 (Jan 1999), 6A107

Homology classes of large-scale periodic orbits on nonlinear space, Appl Math Mech **19**(10) 991-996 (Oct 1998), 6A108

Improved closure method for analysis of nonlinear stochastic systems, Nonlinear Dyn **17**(3) 285-297 (Nov 1998), 6T109

Relationship between periodic solutions of nonlinear dynamic systems (Chinese), J Xi'an Jiaotong Univ **32**(12) 85-89 (1998), 6A110

Rotating waves in rings of coupled oscillators, Dyn Stability Syst **13**(4) 305-318 (1998), 6A111

Slow effects of fast harmonic excitation for elastic structures, Nonlinear Dyn **17**(3) 227-246 (Nov 1998), 6A112

Non-linearly dynamic modeling of an axially moving beam with a tip mass, J Sound Vib **218**(4) 559-571 (Dec 1998), 6A148

Nonlinear vibration analysis of a traveling string with time-dependent length by new hybrid Laplace transform-FEM, J Sound Vib **219**(2) 323-337 (Jan 1999), 6A153

Limit cycle behavior of an airfoil with a control surface, J Fluids Struct **12**(7) 839-858 (Oct 1998), 6A273

Bifurcation-based procedure for designing and analyzing robustly stable nonlinear hydraulic servo systems, J Syst Control Eng **212**(I5) 383-394 (1998), 6A413

Dynamic behavior of servo-hydraulic drives, Nonlinear Dyn **17**(3) 247-268 (Nov 1998), 6A415

Fluid-Structure Interactions: Slender Structures and Axial Flow, Volume 1 (Academic Press, San Diego CA, 1998) 7R9

Attractors of a randomly forced electronic oscillator, Physica D **125**(3-4) 302-310 (Jan 1999), 7A100

Bootstrap and Lyapunov exponents in deterministic chaos, Physica D **126**(1-2) 49-59 (Feb 1999), 7A101

Boundaries of safe motion through a coarse grid-of-starts, J Brazilian Soc Mech Sci **20**(4) 564-575 (Dec 1998), 7A102

Characterization of the spatial complex behavior and transition to chaos in flow systems, Physica D **125**(1-2) 65-78 (Jan 1999), 7A103

Controlling chaos in map models, Mech Res Commun **26**(1) 13-20 (Jan-Feb 1999), 7T104

Effect of temperature in nonlinear dynamics of an elasto-plastic oscillator with isotropic hardening, J Brazilian Soc Mech Sci **20**(4) 576-586 (Dec 1998), 7A105

Method for analyzing the dynamics of mechanical systems with local nonlinearities (Chinese), Chinese J Comput Mech **16**(1) 73-78 (Feb 1999), 7T106

Self-excited oscillators with asymmetric nonlinearities and one-to-two internal resonance, Nonlinear Dyn **17**(4) 325-346 (Dec 1998), 7T107

Semiclassical theory of quantum noise in open chaotic systems, Physica D **125**(1-2) 47-64 (Jan 1999), 7A108

Streamline topologies near simple degenerate critical points in 2D flow away from boundaries, Phys Fluids **11**(2) 314-324 (Feb 1999), 7A109

Structure of energy conserving low-order models, Phys Fluids **11**(2) 334-343 (Feb 1999), 7T110

Synchronizing multiple chaotic maps with a randomized scalar coupling, Physica D **125**(3-4) 241-259 (Jan 1999), 7A111

Free out-of-plane vibrations of a rotating beam with nonlinear elastomeric constraints, J Sound Vib **220**(1) 1-25 (Feb 1999), 7A136

Parametrically excited nonlinear traveling beams with and without external forcing, Nonlinear Dyn **17**(4) 301-324 (Dec 1998), 7A140

Nonlinear stochastic dynamics of tension leg platforms, J Sound Vib **220**(1) 27-65 (Feb 1999), 7A180

Bifurcation and resonance of a mathematical model for nonlinear motion of a flooded ship in waves, J Sound Vib **220**(1) 155-170 (Feb 1999), 7A193

Method for identification of nonlinear multi-dof systems, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 287-298 (1998), 7A333

Cylindrical Couette flows of a rarefied gas with evaporation and condensation: Reversal and bifurcation of flows, Phys Fluids **11**(2) 476-490 (Feb 1999), 7T1013

Nonlinear Systems Techniques and Applications (SEM, Bethel CT, 1998) 8N13

Dynamics of rigid multibody systems with clearances in the joints, Mech Struct Machines **27**(1) 63-87 (1999), 8T85

Bifurcation of traveling waves resulting from resonant mode crossings in oceanic currents, Eur J Mech B **18**(1) 35-46 (Jan-Feb 1999), 8A92

Chaotic trajectories of a double mathematical pendulum, J Appl Math Mech **62**(5) 827-830 (1998), 8A93

Energy-Casimir and energy-Lagrange methods in the study of nonlinear symmetric stability problems, J Atmos Sci **56**(3) 400-411 (Feb 1999), 8A94

Global geometric structure of the dynamics of the elastic pendulum, Nonlinear Dyn **18**(1) 51-68 (Jan 1999), 8A95

Global stability and chaos in a population model with piecewise constant arguments, Appl Math Comput **101**(1) 63-88 (Jun 1999), 8T96

Greatest number of limit cycles of the generalized Rayleigh-Lienard oscillator, J Sound Vib **221**(1) 133-142 (Mar 1999), 8A97

Inverse tracing of periodic solutions for nonlinear dynamic systems (Chinese), J Xi'an Jiaotong Univ **33**(2) 29-33 (1999), 8A98

Mass-transfer enhancement via chaotic laminar flow within a droplet, J Fluid Mech **379** 319-331 (Jan 1999), 8A99

Nonlinear slow normal mode and stochasticity in the dynamics of a conservative flexible rod-pendulum configuration, J Sound Vib **220**(3) 383-411 (Feb 1999), 8A100

Note on bifurcation problems in large containers, Fluid Dyn Res **24**(4) 189-199 (Apr 1999), 8A101

Prediction of daily discharge time series based on chaos dynamics (Chinese), J Huazhong Univ Sci Tech **26**(12) 62-64 (Dec 1998), 8A102

Quasi-periodic oscillations, chaos and suppression of chaos in a nonlinear oscillator driven by parametric and external excitations, Nonlinear Dyn **18**(1) 1-24 (Jan 1999), 8A103

Asymptotic-numerical method for large-amplitude free vibrations of thin elastic plates, J Sound Vib **220**(4) 695-727 (Mar 1999), 8A143

Further comments on nonlinear vibrations of shells, J Fluids Struct **13**(1) 159-160 (Jan 1999), 8T157

Parametric excitation of nonlinear elastic systems involving hydrodynamic sloshing impact, Nonlinear Dyn **18**(1) 25-50 (Jan 1999), 8A261

Wavelet auto-correlation analysis applied to eddy structure identification of free turbulent shear flow, JSME Int J Ser B **40**(4) 567-576 (Nov 1997), 8T1184

Vortex crystals from 2D Euler flow: Experiment and simulation, Phys Fluids **11**(4) 905-914 (Apr 1999), 8T1196

Objective method for determining principal time scales of coherent eddy structures using orthonormal wavelets, Adv Water Resources **22**(6) 561-566 (Feb 1999), 8A1199

Stochastic dynamics of El Nino-Southern oscillation, J Atmos Sci **56**(1) 5-23 (Jan 1999), 8T1534

Proceedings of the 3rd International Conference on Nonlinear Mechanics (Shanghai Univ Press, PRC, 1998) 9N14

Non-integrability and continuation of fixed points of 2n-dimension perturbed twist maps, Physica D **128**(1) 70-86 (Apr 1999), 9A83

Detection of bifurcation structures by higher-order averaging for Duffing's equation, Nonlinear Dyn **18**(2) 129-158 (Feb 1999), 9T95

Direct treatment and discretizations of nonlinear spatially continuous systems, J Sound Vib **221**(5) 849-866 (Apr 1999), 9A96

Dynamics of a pendulum with feedforward and feedback control, JSME Int J Ser C **41**(3) 545-554 (Sep 1998), 9A97

Experiment on chaotic oscillations of a post-buckled reinforced beam constrained by an axial spring, JSME Int J Ser C **41**(3) 563-569 (Sep 1998), 9A98

Linear control and estimation of nonlinear chaotic convection: Harnessing the butterfly effect, Phys Fluids **11**(5) 1169-1186 (May 1999), 9T99

Resonant capture and separatrix crossing in dual-spin spacecraft, Nonlinear Dyn **18**(2) 159-184 (Feb 1999), 9T100

Second-order approximation for chaotic responses of a harmonically excited spring-pendulum system, Int J Non-Linear Mech **34**(4) 749-757 (Jul 1999), 9A101

Stability theorem for unsymmetric Lienard equations, Dyn Stability Syst **14**(1) 93-105 (Mar 1999), 9T102

Steady-state responses and stability analyses of the Duffing's oscillator with the softening spring to an external exciting force, JSME Int J Ser C **41**(3) 532-544 (Sep 1998), 9A103

Strongly resonant bifurcations of nonlinearly coupled Van der Pol-Duffing Oscillator, Appl Math Mech **20**(1) 68-75 (Jan 1999), 9A104

Variational construction of homoclinics and chaos in presence of a saddle-saddle equilibrium, Rendiconti Lincei Matematica e Appl **IX**(3) 167-175 (1998), 9A105

Vibrations of nonlinear systems with discontinuities: The case of a preloaded compliance system, JSME Int J Ser C **41**(4) 710-717 (Dec 1998), 9A106

Analysis of multi-dof strongly nonlinear mechanical systems with random input - Part I: Nonlinear modes and stochastic averaging, Probab Eng Mech **14**(3) 229-244 (Jul 1999), 9A111
Nonlinear analysis of a parametrically excited cantilever beam: Effect of the tip mass on stationary response, JSME Int J Ser C **41**(3) 555-562 (Sep 1998), 9A138
Identification of nonlinear vibration system by a neural network, JSME Int J Ser C **41**(3) 570-576 (Sep 1998), 9A397
Experimental identification technique of nonlinear beams in time domain, Nonlinear Dyn **18**(2) 185-202 (Feb 1999), 9A424
Fractal characteristics of free-surface profiles of metal sheets under equi-biaxial tension, JSME Int J Ser C **41**(3) 485-492 (Sep 1998), 9A1033
Chaotic behavior in gear system, JSME Int J Ser C **41**(3) 577-582 (Sep 1998), 9A1043
Application of the Melnikov method to nonlinear ship rolling in waves (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 1-6 (Jan 1999), 9A1254
Visions of Nonlinear Science in the 21st Century (World Sci Publ, Singapore, 1999) 10N10
Application of special nonsmooth temporal transformations to linear and nonlinear systems under discontinuous and impulsive excitation, Nonlinear Dyn **18**(3) 203-234 (Mar 1999), 10T127
Application of the lie group transformations to nonlinear dynamical systems, J Appl Mech **66**(2) 439-447 (Jun 1999), 10A128
Conditions for the occurrence of limit cycles in autonomous potential damped systems, Int J Non-Linear Mech **34**(5) 949-966 (Sep 1999), 10A129
Efficient analysis of high-order dynamical system with local nonlinearity, J Vib Acoust **121**(3) 408-416 (Jul 1999), 10A130
Evaluation of a seismic damage parameter, Earthquake Eng Struct Dyn **28**(5) 463-477 (May 1999), 10A131
Exploring nonlinearity by feedback, Physica D **128**(2-4) 159-168 (Apr 1999), 10A132
Nonlinear systems under impulsive parametric input, Int J Non-Linear Mech **34**(5) 843-851 (Sep 1999), 10A133
Principles of Lagrange and Jacobi for nonholonomic systems, Int J Non-Linear Mech **34**(5) 823-829 (Sep 1999), 10A134
Stabilization of 1/3-order subharmonic resonance using an autoparametric vibration absorber, J Vib Acoust **121**(3) 309-315 (Jul 1999), 10A135
Study of a nonlinear oscillator under parametric impulsive excitation using a non-smooth temporal transformation, J Sound Vib **222**(2) 307-328 (Apr 1999), 10A136
Two motions of a particle driven by equivalent ergodic and chaotic reflection laws, Arch Mech **50**(5) 865-875 (1998), 10A137
Wavelet-based analysis of the non-stationary response of a slipping foundation, J Sound Vib **222**(4) 547-563 (May 1999), 10A143
Asymptotic behavior of an oscillator excited by dry friction forces, J Sound Vib **222**(4) 521-530 (May 1999), 10A146
Dynamics of a slender beam with an attached mass under combination parametric and internal resonances - Part II: Periodic and chaotic responses, J Sound Vib **222**(2) 281-305 (Apr 1999), 10A156
Multiple resonances in suspended cables: Direct versus reduced-order models, Int J Non-Linear Mech **34**(5) 901-924 (Sep 1999), 10A171
Study of chaotic motion in elastic cylindrical shells, Eur J Mech A **18**(2) 351-360 (Mar-Apr 1999), 10A194
Regular and chaotic dynamics of a rotational machine with a centrifugal governor, Int J Eng Sci **37**(7) 921-943 (May 1999), 10A204
Adaptive control of flow-induced oscillations including vortex effects, Int J Non-Linear Mech **34**(5) 853-868 (Sep 1999), 10A219
Nonlinear oscillations and chaos in a railway vehicle system, Chinese J Mech Eng **11**(3) 231-238 (Sep 1998), 10A224
Modeling of nonlinear oscillations of elastic structures in heavy fluid loading conditions, J Sound Vib **222**(3) 425-451 (May 1999), 10A303
Fractal encoding of images using central moments based tree search, J Eng Appl Sci **46**(1) 161-176 (Feb 1999), 10A402
Nonlinear normal modes of buckled beams: Three-to-one and one-to-one internal resonances, Nonlinear Dyn **18**(3) 253-273 (Mar 1999), 10T714
Dynamic buckling of autonomous systems having potential energy universal unfoldings of cuspoid catastrophe, Nonlinear Dyn **18**(3) 235-252 (Mar 1999), 10T734
Dynamical Systems: Stability, Symbolic Dynamics, and Chaos, Second Edition (CRC Press, Boca Raton FL, 1999) 11R10
Methods of Qualitative Theory in Nonlinear Dynamics, Part I (World Sci Publ, Singapore, 1998) 11R11
IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics (Kluwer, Netherlands, 1998) 11N14
Abundance of attractors in an array of locally coupled nonlinear circuits, Bull Polish Acad Sci Tech Sci **46**(4) 409-441 (1998), 11A143
Analysis of mixing in 3D time-periodic cavity flows, J Fluid Mech **386** 149-166 (May 1999), 11A144
Chaos synchronization of two parametrically excited pendulums, J Sound Vib **223**(2) 247-254 (Jun 1999), 11A145
Existence of two almost periodic solutions of pendulum-type equations, Nonlinear Anal **37**(6) 797-804 (Sep 1999), 11T146
Grazing bifurcations and basins of attraction in an impact-friction oscillator, Physica D **130**(1-2) 43-57 (Jun 1999), 11A147
Lagrangian analysis of advection-diffusion equation for a 3D chaotic flow, Phys Fluids **11**(6) 1418-1434 (Jun 1999), 11A148
Local inversion system algorithms for controlling chaotic oscillations (Chinese), Chinese J Comput Mech **16**(2) 127-131 (May 1999), 11T149
Local stability of limit cycles, Chaos **9**(2) 348-356 (Jun 1999), 11A150
Non degeneracy and chaotic motions for a class of almost-periodic Lagrangean systems, Nonlinear Anal **37**(3) 337-361 (Jul 1999), 11T151
Optimal and adaptive control of chaotic convection: Theory and experiments, Phys Fluids **11**(6) 1435-1448 (Jun 1999), 11A152
Optimal and adaptive control of chaotic convection: Theory and experiments, Phys Fluids **11**(6) 1435-1448 (Jun 1999), 11A152
Oscillations in systems having velocity dependent frequencies, J Sound Vib **223**(2) 329-333 (Jun 1999), 11T153
Routes to chaos in wide-gap spherical Couette flow, Phys Fluids **11**(6) 1359-1372 (Jun 1999), 11A154
Second period-doubling in a 3D system, Mech Res Commun **26**(2) 123-128 (Mar-Apr 1999), 11T155
Steady state response of oscillators with static and inertia nonlinearities, J Sound Vib **223**(1) 49-71 (May 1999), 11A156
Two kids of predictability in the Lorenz system, J Atmos Sci **56**(10) 1427-1432 (May 1999), 11T157
Chaotic dynamics of an unstable Bugers equation, Physica D **129**(1-2) 57-67 (May 1999), 11A257
Damage diagnosis of rotors: Application of Hilbert transform and multihypothesis testing, J Vib and Control **5**(3) 421-442 (May 1999), 11A350
Inverse dynamics of flexible manipulators with Coulomb friction or backlash and non-zero initial conditions, Dyn Control **9**(2) 173-195 (Apr 1999), 11A417
Chaotic streamlines in steady bounded 3D Stokes flows, Physica D **130**(1-2) 105-132 (Jun 1999), 11A1108
Stability of the dynamical system "rigid body + inviscid fluid", J Fluid Mech **386** 43-75 (May 1999), 11A1127
Multifractal asymptotic modeling of the probability density function of velocity increments in turbulence, Physica D **129**(1-2) 93-114 (May 1999), 11A1262
Symmetry and ordinary differential constraints, Int J Non-Linear Mech **34**(6) 1089-1102 (Nov 1999), 12A86
Second-order constraints for equations of motion of constrained systems, IEEE/ASME Trans Mechatronics **3**(3) 240-248 (Sep 1998), 12A102
Example for the orbital stability of permanently disturbed non-smooth motions, Z Angew Math Mech **79**(6) 389-397 (1999), 12A109
Nonlinear oscillations in Coriolis based gyroscopes, Model Ident Control **20**(1) 27-62 (Jan 1999), 12A110
Basic vibrations and anharmonic analysis of a vibration, Int J Non-Linear Mech **34**(6) 1061-1069 (Nov 1999), 12A111
Codimension-two bifurcations in a pendulum with feedback control, Int J Non-Linear Mech **34**(6) 983-1002 (Nov 1999), 12A112
Equations of motion of constrained mechanical systems: Given force depends on constraint force, Mechatronics **9**(4) 411-428 (Jun 1999), 12T113
Generalization of the Senator-Bapat method to systems having limit cycles, J Sound Vib **224**(1) 167-171 (Jul 1999), 12T114
Nonlinear oscillations of viscoelastic rectangular plates, Nonlinear Dyn **18**(4) 311-319 (Apr 1999), 12A115
Optimization of viscous mixing in a 2D cavity transfer mixer, Flow Turbulence Combust **60**(4) 377-407 (1998), 12A116
Periodicity and chaos in a flexible crank-rocker mechanism, Int J Non-Linear Mech **34**(6) 1103-1111 (Nov 1999), 12A117
Predicting homoclinic bifurcations in planar autonomous systems, Nonlinear Dyn **18**(4) 303-310 (Apr 1999), 12T118
Response of a 3-dof system with cubic nonlinearities to harmonic excitation, Appl Math Comput **104**(1) 65-84 (Sep 1999), 12A119
Sequences of orbits and the boundaries of the basin of attraction for two double heteroclinic orbits, Int J Non-Linear Mech **34**(6) 1047-1059 (Nov 1999), 12A120
Universal properties of chaotic transport in the presence of diffusion, Phys Fluids **11**(8) 2044-2057 (Aug 1999), 12A121
Analysis of the nonlinear vibration characteristics of a belt-driven system, J Sound Vib **223**(5) 723-740 (Jun 1999), 12A141
Dynamic study of a structure with flexion-torsion coupling in the presence of dry friction, Nonlinear Dyn **18**(4) 321-337 (Apr 1999), 12A153
Oscillation, instability and control of stepper motors, Nonlinear Dyn **18**(4) 383-404 (Apr 1999), 12A444
Long time behavior of Navier-Stokes equations for 2D exterior domains (Chinese), J Xi'an Jiaotong Univ **33**(6) 77-81 (1999), 12A1064
Bifurcation study of flow through rotating curved ducts, Phys Fluids **11**(8) 2030-2043 (Aug 1999), 12A1149
Low-dimensional modeling of channel turbulence, Theor Comput Fluid Dyn **13**(2) 115-127 (Jun 1999), 12A1201
Bifurcations in ship rolling: Experimental results and parameter identification technique, Ocean Eng **26**(11) 1095-1123 (Nov 1999), 12T1236

150Y. Computational techniques

Application of the absolute nodal coordinate formulation to multibody system dynamics, J Sound Vib **214**(5) 833-851 (Jul 1998), 1A98
Analysis of flexible multibody systems with spatial beams using mixed variational principles, Int J Numer Methods Eng **42**(6) 1071-1090 (Jul 1998), 1A121
Isolating segments and symbolic dynamics, Nonlinear Anal **33**(6) 575-591 (Sep 1998), 1T122
Parametrized formulations of Hamilton's law for numerical solutions of dynamic problems - Part I: Global approximation, Comput Mech **21**(6) 441-448 (Jun 1998), 1A123
Parametrized formulations of Hamilton's law for numerical solutions of dynamic problems - Part II: Time FE approximation, Comput Mech **21**(6) 449-460 (Jun 1998), 1A124
Planar dynamics of flexible manipulators with slewing deployable links, J Guidance Control Dyn **21**(4) 572-580 (Jul-Aug 1998), 1A430
Computer implementation of the absolute nodal coordinate formulation for flexible multibody dynamics, Nonlinear Dyn **16**(3) 293-306 (Jul 1998), 2A137
Nonlinear vibration by a new method, J Sound Vib **215**(3) 475-487 (Aug 1998), 2A154
General method for estimating dynamic parameters of spatial mechanisms, Nonlinear Dyn **16**(4) 349-368 (Aug 1998), 2A160
High precision direct integration scheme for flying bodies subjected to transient dynamic loading (Chinese), Chinese J Comput Mech **15**(3) 288-292 (Aug 1998), 2T161
Object-oriented approach to multibody systems analysis, Comput Struct **69**(2) 209-217 (Oct 1998), 2A162
Transient response analysis of nonlinear modally coupled structural dynamics equations of motion, AIAA J **36**(8) 1486-1493 (Aug 1998), 2A184
Phase-space prediction of chaotic time series, Dyn Stability Syst **13**(3) 219-236 (1998), 3A111
Computational schemes for flexible, nonlinear multibody systems, Multibody Syst Dyn **2**(2) 169-225 (Jun 1998), 3A113
Generalized Bolotin's method for stability limit determination of parametrically excited systems, J Sound Vib **216**(5) 851-863 (Oct 1998), 3A114
Stabilization method for numerical integration of multibody mechanical systems, J Mech Des **120**(4) 565-572 (Dec 1998), 3A115
Symbolic computation of local stability and bifurcation surfaces for nonlinear time-periodic systems, Nonlinear Dyn **17**(1) 1-21 (Sep 1998), 4A120
Forced vibration of continuous system with unsymmetrical collision characteristics, Nonlinear Dyn **17**(2) 141-157 (Oct 1998), 5A89
Multiple scale analysis for divergence-Hopf bifurcation of imperfect symmetric systems, J Sound Vib **218**(3) 527-539 (Dec 1998), 5A94
Globally controllable systems of rigid bodies, J Appl Math Mech **62**(3) 371-377 (1998), 5A103
New time integration method in structural dynamics using the Taylor series, Proc Inst Mech Eng C **212**(C7) 567-575 (1998), 5A104
Improved closure method for analysis of nonlinear stochastic systems, Nonlinear Dyn **17**(3) 285-297 (Nov 1998), 6T109
Convergence of a time-stepping scheme for rigid-body dynamics and resolution of Painleve's problem, Arch Rational Mech Anal **145**(3) 215-260 (1998), 6A113
Stochastic Newmark algorithm for random analysis of multi-dof nonlinear systems, Comput Struct **70**(5) 557-568 (Mar 1999), 7A120
Rotational resistance behavior and field testing of two-axle bogie design, Vehicle Syst Dyn **31**(1) 47-63 (Jan 1999), 7A189
Order-N formulation and dynamics of multi-unit flexible space manipulators, Nonlinear Dyn **17**(4) 347-368 (Dec 1998), 7A409
Efficient simulation of motions involving Coulomb friction, J Guidance Control Dyn **22**(1) 78-86 (Jan-Feb 1999), 7A887
Nonlinear dynamic analysis of surface mount interconnects - Part I: Theory, J Electron Packaging **121**(1) 8-11 (Mar 1999), 7A929
Nonlinear dynamic analysis of surface mount interconnects - Part II: Applications, J Electron Packaging **121**(1) 12-17 (Mar 1999), 7A930
Detection of bifurcation structures by higher-order averaging for Duffing's equation, Nonlinear Dyn **18**(2) 129-158 (Feb 1999), 9T95
Multi-index variable time step method for the dynamic simulation of multibody systems, Int J Numer Methods Eng **44**(11) 1579-1598 (Apr 1999), 9A107
Spin vector evolution for inner solar system asteroids, Planet Space Sci **47**(1-2) 11-22 (Jan-Feb 1999), 9A108
Vibration control of a four-bar mechanism with a flexible coupler link, J Sound Vib **222**(2) 171-189 (Apr 1999), 10A118
Application of special nonsmooth temporal transformations to linear and nonlinear systems under discontinuous and impulsive excitation, Nonlinear Dyn **18**(3) 203-234 (Mar 1999), 10T127
Nonlinear normal modes of buckled beams: Three-to-one and one-to-one internal resonances, Nonlinear Dyn **18**(3) 253-273 (Mar 1999), 10T714
Boundary formulation for calculating moments of an arbitrary closed planar region, Eng Anal Boundary Elements **23**(7) 611-617 (Jul 1999), 11A158
New constraint stabilization technique for dynamic systems with nonholonomic constraints, J Guidance Control Dyn **22**(3) 497-499 (May-Jun 1999), 11T159
Dynamic system characterization via eigenvalue orbits, J Guidance Control Dyn **22**(3) 447-454 (May-Jun 1999), 11A355
Dynamic simulation of general flexible multibody systems, Mech Struct Machines **27**(2) 217-251 (1999), 12A122
Decoupling solution method for implicit numerical integration of constrained mechanical systems, Mech Struct Machines **27**(2) 129-141 (1999), 12A1010

150Z. Experimental techniques

Transient laser Doppler anemometry for measurement of rapidly changing velocities of solid bodies, Exp Mech **38**(4) 261-269 (Dec 1998), 5A105
Spatial mechanism for the measurement of the inertia tensor: Theory and experimental results, J Dyn Syst Meas Control **121**(1) 111-116 (Mar 1999), 6A114

152. VIBRATIONS OF SOLIDS (BASIC)

152A. General theory

Harmonic vibrations in thermoelasticity of micropolar bodies, J Vib and Control **4**(5) 507-518 (Sep 1998), 2T163
Vibration analysis of continuous systems by differential transformation, Appl Math Comput **96**(1) 17-26 (Oct 1998), 2A164
Oscillations and Waves (Springer-Verlag, New York, 1997) 3R10
Nonstationary effects on safe basins of a forced softening Duffing oscillator, Acta Mech Solida Sinica **11**(3) 253-260 (1998), 3A108
Classical and quantum perturbation theory for two non-resonant oscillators with quartic interaction, Meccanica **33**(4) 397-405 (Aug 1998), 3A116
Study on mode localization phenomena: Influences of the stiffness and the mass of the coupler on mode localization, J Sound Vib **216**(1) 53-73 (Sep 1998), 3A117
Estimating the vibrational energy characteristics of an elastic structure via the input impedance and mobility, J Sound Vib **217**(2) 351-386 (Oct 1998), 4A123
First passage of uncertain single dof nonlinear oscillators, Comput Methods Appl Mech Eng **165**(1-4) 223-231 (Nov 1998), 4A124
Postcritical behavior of dissipative nonlinear systems (Russian), Prikl Mekh (Appl Mech) **34**(6) 92-98 (1998), 4A125
Fundamental frequency of tapered plates by the method of eigensensitivity analysis, Ocean Eng **26**(6) 565-573 (Jun 1999), 4T158
Characterization of 3D contact kinematics and prediction of resonant response of structures having 3D frictional constraint, J Sound Vib **217**(5) 909-925 (Nov 1998), 5A70
Technische Mechanik: Fachbegriffe im deutschen und englischen Kontext (German) (BG Teubner, Stuttgart, 1998) 6R5
Upper bound on responses of non-classically damped linear systems, J Sound Vib **218**(5) 883-891 (Dec 1998), 6T115
Modal expansion of structural systems with time delays, AIAA J **36**(12) 2218-2224 (Dec 1998), 6A131
Recent Advances in Solids and Structures - 1998 (ASME, New York, 1998) 7N22

Extracting second-order systems from state-space representations, AIAA J **37**(1) 132-135 (Jan 1999), 7A112
Significance of antiresonance frequencies in experimental structural analyses, J Sound Vib **219**(3) 379-394 (Jan 1999), 7A113
Imposing nodes to the normal modes of a linear elastic structure, J Sound Vib **219**(4) 669-687 (Jan 1999), 7A174
Novel approach to determine the frequency equations of combined dynamical systems, J Sound Vib **219**(4) 689-706 (Jan 1999), 7A175
Exact periodic solution for x + sign (x) = 0, J Sound Vib **220**(2) 378-381 (Feb 1999), 8T104
Further insight into self-adjoint second-order systems, J Vib and Control **5**(2) 237-252 (Mar 1999), 8A105
Nonlinear normal modes and their superposition in a two-dof asymmetric system with cubic nonlinearities, Appl Math Mech **19**(12) 1167-1177 (Dec 1998), 8A106
Perturbation technique for non-self-adjoint systems with repeated eigenvalues, AIAA J **37**(2) 222-226 (Feb 1999), 8A107
Spring's effective mass in spring mass system free vibration, J Sound Vib **220**(3) 564-570 (Feb 1999), 8T108
Modal parameter identification from ambient response, AIAA J **37**(4) 513-515 (Apr 1999), 9T109
Null space solution of Jordan chains for derogatory eigenproblems, J Sound Vib **222**(4) 679-690 (May 1999), 10T138
Optimal estimation of dynamic loads for multiple-input system, J Vib Acoust **121**(3) 397-401 (Jul 1999), 10A139
Resonance processes in mechanical self-oscillation system with delay (Russian), Prikl Mekh (Appl Mech) **35**(2) 90-97 (1999), 10T140
Vibrations of laminated stochastic media (Russian), Prikl Mekh (Appl Mech) **34**(11) 38-45 (1998), 10A141
Author's reply, J Sound Vib **222**(5) 857 (May 1999), 11T160
Comments on "Optimal support positions for a structure to maximize its fundamental natural frequency", J Sound Vib **222**(5) 853-856 (May 1999), 11T161
Further research for sensitivity analyses of discrete periodic systems, AIAA J **37**(5) 653-656 (May 1999), 11T162
Natural frequency and mode shape sensitivities of damped systems - Part I: Distinct natural frequencies, J Sound Vib **223**(3) 399-412 (Jun 1999), 11A178
Natural frequency and mode shape sensitivities of damped systems - Part II: Multiple natural frequencies, J Sound Vib **223**(3) 413-424 (Jun 1999), 11A179
Structural Dynamics: Eurodyn '99, Volume 1 (Balkema, Rotterdam, Netherlands, 1999) 12N8
Basic vibrations and anharmonic analysis of a vibration, Int J Non-Linear Mech **34**(6) 1061-1069 (Nov 1999), 12A111
Mode shapes during asynchronous motion and non-proportionality indices, J Sound Vib **224**(1) 1-16 (Jul 1999), 12A173

152B. Linear theory

Power balance of mechanical oscillators coupled with acoustical fluid, Strojnicky Casopis **49**(4) 268-280 (1998), 2A165

152C. Crystals

Lattice dynamics of metallic glass $Ca_{70}Mg_{30}$ on the model of Bhatia and Singh, Acta Phys Polonica A **94**(4) 655-660 (Oct 1998), 9T110

152D. Stochastic effects, incl random excitation

Hertzian contact vibrations under random external excitation and surface roughness, J Sound Vib **214**(4) 779-783 (Jul 1998), 1T125
Identification of nonlinear characteristics in cushioning packaging using genetic evolutionary neural networks, Mech Res Commun **25**(4) 395-403 (Jul-Aug 1998), 1T126
Nonlinear systems under delta correlated processes handled by perturbation theory, Probab Eng Mech **13**(4) 283-290 (Oct 1998), 1A127
Vibration field correlation of randomly excited flat plate structures - I: Theory, J Sound Vib **214**(3) 443-467 (Jul 1998), 1A128
Vibration field correlation of randomly excited flat plate structures - II: Experimental verification, J Sound Vib **214**(3) 469-496 (Jul 1998), 1A129
Stiffness estimation from random response in multi-mass rotor bearing systems, Probab Eng Mech **13**(4) 255-268 (Oct 1998), 1A164
Generalized equivalent spectrum technique, Wind Struct **1**(2) 161-174 (Jun 1998), 1A1457
Pseudo-linear vibro-impact system with a secondary structure: Response to a white-noise excitation, J Appl Mech **65**(3) 772-774 (Sep 1998), 2T166
Experimentally verified nonlinear damping model for large amplitude random vibration of a clamped-clamped beam, J Sound Vib **215**(2) 343-379 (Aug 1998), 2A194
Stochastic model on a rattling system, J Sound Vib **215**(3) 439-453 (Aug 1998), 2A259
Elastically supported cantilever beam subjected to nonstationary seismic excitation, Earthquake Eng Struct Dyn **27**(9) 977-995 (Sep 1998), 2A1468
Nonlinear and random dynamics in wind engineering: Selected papers from the 2nd European and African Conference on wind engineering held in Genoa, Italy, June 22-26, 1997, Meccanica **33**(3) 215-330 (Jun 1998), 2T1515
Order-preserving random dynamical systems: Equilibria, attractors, applications, Dyn Stability Syst **13**(3) 265-280 (1998), 3T109
Approximating systems of differential equations with random inputs or boundary conditions, Stochastic Anal Appl **16**(2) 313-324 (1998), 3A118
Optimal design of tuned mass dampers by random vibration methods (Japanese), Proc JSCE **598**(I-44) 371-379 (Jul 1998), 3A128
Stochastic approach of the energy analysis for 1D structures, J Sound Vib **216**(3) 361-378 (Sep 1998), 3A149
Stochastic Doppler shift and encountered wave period distributions in Gaussian waves, Ocean Eng **26**(6) 507-518 (Jun 1999), 4T238
Multiaxial fatigue life prediction of metallic structures submitted to random vibrations (French), Rev Francaise Mec **0**(3) 202-208 (Sep 1998), 4A776
Stochastic Processes and Random Vibrations: Theory and Practice (Wiley, UK, 1997) 5R6
Fourier-based maximum entropy method in stochastic dynamics, Struct Safety **20**(3) 221-235 (1998), 5A63
Behavior of stochastic shear beams under random loading via stochatic variational principles, Chaos Solitons Fractals **9**(12) 1983-1996 (Dec 1998), 5A106
Random vibrations of a Duffing oscillator using the Volterra series, J Sound Vib **217**(4) 781-789 (Nov 1998), 5T107
Structural damage identification: A probabilistic approach, AIAA J **36**(11) 2137-2145 (Nov 1998), 5A327
From Instability to Intelligence: Complexity and Predictability in Nonlinear Dynamics (Springer-Verlag, Berlin, 1997) 6R4
Applications of probability density estimation to the detection of abnormal conditions in engineering, Proc Inst Mech Eng C **212**(C8) 687-703 (1998), 6A116
Optimum design of a passive suspension system of a vehicle subjected to actual random road excitations, J Sound Vib **219**(2) 193-205 (Jan 1999), 6A117
Stochastic stability of quasi-non-integrable-Hamiltonian systems, J Sound Vib **218**(5) 769-789 (Dec 1998), 6A118
Wavelet analysis method of stationary random processes, Appl Math Mech **19**(10) 929-935 (Oct 1998), 6A119
System identification of linear MDOF structures under ambient excitation, Earthquake Eng Struct Dyn **28**(1) 61-77 (Jan 1999), 6A192
Approximate probability distributions for stochastic systems: Maximum entropy method, Comput Methods Appl Mech Eng **168**(1-4) 91-111 (Jan 1999), 7A114
Asymptotic 2_p-moment stability of stochastic linear systems, Mech Res Commun **26**(1) 21-29 (Jan-Feb 1999), 7T115
Probability density function of MDOF structural systems under non-normal delta-correlated inputs, Comput Methods Appl Mech Eng **168**(1-4) 121-133 (Jan 1999), 7A116
Response of stochastic dynamical systems driven by additive Gaussian and Poisson white noise: Solution of a forward generalized Kolmogorov equation by a spectral finite difference method, Comput Methods Appl Mech Eng **168**(1-4) 73-89 (Jan 1999), 7A117
Stochastic analysis of dynamical systems by phase-space-controlled Monte Carlo simulation, Comput Methods Appl Mech Eng **168**(1-4) 273-283 (Jan 1999), 7A118
Stochastic excitation of suspended cables involving three simultaneous internal resonances using Monte Carlo simulation, Comput Methods Appl Mech Eng **168**(1-4) 285-304 (Jan 1999), 7A119
Stochastic Newmark algorithm for random analysis of multi-dof nonlinear systems, Comput Struct **70**(5) 557-568 (Mar 1999), 7A120
Technique for obtaining approximate solutions in Gaussian equivalent linearization, Comput Methods Appl Mech Eng **168**(1-4) 113-119 (Jan 1999), 7A121
Nonlinear stochastic dynamics of tension leg platforms, J Sound Vib **220**(1) 27-65 (Feb 1999), 7A180
Specialty conference on Probabilistic Mechanics and Structural Reliability: Worcester Polytechnic Institute, Worcester, MA August 7-9, 1996, Probab Eng Mech **14**(1-2) 3-211 (Jan-Apr 1999), 7A829
Nonlinear slow normal mode and stochasticity in the dynamics of a conservative flexible rod-pendulum configuration, J Sound Vib **220**(3) 383-411 (Feb 1999), 8A100
Local similarity in nonlinear random vibration, J Appl Mech **66**(1) 225-235 (Mar 1999), 8A109
Progress in structural dynamics with stochastic parameter variations: 1987-1998, Appl Mech Rev **52**(5) 177-197 (May 1999), 8A110
Radiation damping in plates induced by porous media, J Sound Vib **221**(1) 143-167 (Mar 1999), 8A111
Stochastic Dynamics (Springer-Verlag, New York, 1999) 9N16
Spectral Theory of Dynamical Systems (Birkhauser Boston, MA, 1998) 9N19
Analysis of multi-dof strongly nonlinear mechanical systems with random input - Part I: Nonlinear modes and stochastic averaging, Probab Eng Mech **14**(3) 229-244 (Jul 1999), 9A111
Analysis of multi-dof strongly nonlinear mechanical systems with random input - Part II: Equivalent linear system with random matrices and power spectral density matrix, Probab Eng Mech **14**(3) 245-256 (Jul 1999), 9A112
Modeling of stochastic modulated rattling system, Appl Math Mech **20**(1) 90-98 (Jan 1999), 9A113
Modified model for the estimation of fatigue life derived from random vibration theory, Probab Eng Mech **14**(3) 281-288 (Jul 1999), 9A114
Railway wheel squeal: Squeal of disk subjected to random excitation, JSME Int J Ser C **41**(3) 608-615 (Sep 1998), 9A115
Simplified analysis for the evaluation of stochastic response of elasto-plastic oscillators, Probab Eng Mech **14**(3) 269-280 (Jul 1999), 9A116
Spatial ground motion effect on relative displacement of adjacent building structures, Earthquake Eng Struct Dyn **28**(4) 333-349 (Apr 1999), 9A184
Active vibration isolation control for a multi-dof structure with uncertain base dynamics, JSME Int J Ser C **41**(1) 37-45 (Mar 1998), 9A204
Computational Stochastic Mechanics (Balkema, Rotterdam, Netherlands, 1999) 10N1
Structural Dynamics in Aeronautical Engineering (AIAA, Reston, VA, 1999) 10R6
Stochastic analysis of the linear equivalent response of bridge piers with aseismic devices, Earthquake Eng Struct Dyn **28**(5) 543-560 (May 1999), 10A142
Wavelet-based analysis of the non-stationary response of a slipping foundation, J Sound Vib **222**(4) 547-563 (May 1999), 10A143
Adaptive control of flow-induced oscillations including vortex effects, Int J Non-Linear Mech **34**(5) 853-868 (Sep 1999), 10A219
Approximate analytical expressions for the stochastic response of a bilinear hysteretic oscillator with low yield levels, J Sound Vib **223**(2) 255-271 (Jun 1999), 11A163
Filter approach to the stochastic analysis of MDOF wind-excited structures, Probab Eng Mech **14**(4) 311-321 (Oct 1999), 11A164
New random BE formulation applied to high frequency phenomena, J Sound Vib **223**(2) 273-296 (Jun 1999), 11A165
Numerical and experimental studies of linear systems subjected to non-Gaussian random excitations, Probab Eng Mech **14**(4) 289-299 (Oct 1999), 11A166
Statistics of ordered peaks in the response of non-classically damped structures, Probab Eng Mech **14**(4) 329-337 (Oct 1999), 11A167
Stochastic dynamics of systems with friction-induced vibration, J Sound Vib **223**(1) 115-140 (May 1999), 11A168
Symmetric formulation for experimental statistical energy analysis, J Sound Vib **223**(1) 161-169 (May 1999), 11T169
Towards incorporating impact losses into random vibration analyses: A model problem, Probab Eng Mech **14**(4) 323-328 (Oct 1999), 11A170
Real-time structural parameter modification (RSPM) approach for random vibration reduction - Part I: Principle, Probab Eng Mech **14**(4) 349-362 (Oct 1999), 11A184
Real-time structural parameter modification, approach for random vibration reduction - Part II: Experimental verification, Probab Eng Mech **14**(4) 363-381 (Oct 1999), 11A185
Structural Dynamics: Eurodyn '99, Volume 1 (Balkema, Rotterdam, Netherlands, 1999) 12N8
Probabilistic Methods in the Theory of Structures, Second Edition (Dover, Mineola NY, 1999) 12N20
Parametric study based on synthetic realizations of EARPG (1)-UPS for simulation of extreme value statistics, Wind Struct **2**(2) 85-94 (Jun 1999), 12A123
Dynamic response of a rotating beam subjected to a random moving load, J Sound Vib **223**(5) 741-758 (Jun 1999), 12A134
Simulation of wind process by spectral representation method and application to cooling tower shell, Wind Struct **2**(2) 105-117 (Jun 1999), 12A152

152F. Damping, decay, and control of vibrations

Damping behavior of shape memory alloys: Strain amplitude, frequency and temperature effects, J Sound Vib **214**(5) 885-901 (Jul 1998), 1A130
Dynamic analysis and vibration control of a flexible slider-crank mechanism using PM synchronous servo motor drive, J Sound Vib **214**(4) 605-637 (Jul 1998), 1A131
Forced response analysis in time and frequency domains of a tuned bladed disk with friction dampers, J Sound Vib **214**(3) 395-412 (Jul 1998), 1A132
Hybrid control: Separation in design, J Sound Vib **214**(4) 784-791 (Jul 1998), 1T133
Optimal damping between two adjacent elastic structures, Earthquake Eng Struct Dyn **27**(7) 649-659 (Jul 1998), 1A134
Stability estimation of high dimensional vibrating systems under state delay feedback control, J Sound Vib **214**(3) 497-511 (Jul 1998), 1A135
Suppression of vibration in the axially moving Kirchhoff string by boundary control, J Sound Vib **214**(3) 567-575 (Jul 1998), 1T151
Vibration control of cable-stayed bridges - Part 1: Modeling issues, Earthquake Eng Struct Dyn **27**(8) 811-824 (Aug 1998), 1A176
Vibration control of cable-stayed bridges - Part 2: Control analyses, Earthquake Eng Struct Dyn **27**(8) 825-843 (Aug 1998), 1A177
Plate insertion as a means to improve the damping capacity of a cutting tool system, Int J Machine Tools Manuf **38**(10-11) 1209-1220 (Oct-Nov 1998), 1A185
Bandpass vibration absorber, J Sound Vib **214**(3) 553-566 (Jul 1998), 1A192
Active control of the structural and acoustic responses of a fluid-loaded plate - Part I: Analysis of the physical system, J Low Frequency Noise Vib **17**(1) 11-25 (1998), 1A278
Active vibration control of flexural-shear type frame structures with smart structures using piezoelectric actuators, Smart Mat Struct **7**(4) 479-488 (Aug 1998), 2A167
Characteristics of enhanced active constrained layer damping treatments with edge elements - Part 1: FE model development and validation, J Vib Acoust **120**(4) 886-893 (Oct 1998), 2A168
Characteristics of enhanced active constrained layer damping treatments with edge elements - Part 2: System analysis, J Vib Acoust **120**(4) 894-900 (Oct 1998), 2A169
Constrained optimal control of vibration dampers, J Sound Vib **215**(3) 499-509 (Aug 1998), 2A170
Distributed photostrictive actuation and opto-piezothermoelasticity applied to vibration control of plates, J Vib Acoust **120**(4) 937-943 (Oct 1998), 2A171
Hybrid method for estimating modal damping in sag cable with oil damper, Adv in Struct Eng **1**(4) 221-236 (Jul 1998), 2A172
Linear damping models for structural vibration, J Sound Vib **215**(3) 547-569 (Aug 1998), 2A173
Method for reducing sound radiated from structures using vibration absorbers optimized with a neural network, J Acoust Soc Am **104**(3-PT1) 1466-1473 (Sep 1998), 2A174
Performance comparison of passive energy dissipation systems in structural applications - I: Linear reference system, Adv in Struct Eng **1**(4) 237-259 (Jul 1998), 2A175
Performance comparison of passive energy dissipation systems in structural applications - II: Nonlinear reference system, Adv in Struct Eng **1**(4) 261-272 (Jul 1998), 2A176
Physical explanation of the destabilizing effect of damping, J Appl Mech **65**(3) 642-648 (Sep 1998), 2A177
Stability and bifurcation of a rotor-fluid film bearing system with squeeze film damper, J Vib Acoust **120**(4) 1003-1006 (Oct 1998), 2A178
Structural vibration control using PZT patches and nonlinear phenomena, J Sound Vib **215**(2) 273-296 (Aug 1998), 2A179
Vibration and sound radiation controls of beams using layered modal sensors and actuators, Smart Mat Struct **7**(4) 446-455 (Aug 1998), 2A180
Vibration control in cutting process by an active work-rest, Int J Japan Soc Precision Eng **32**(2) 133-134 (Jun 1998), 2A181
Optimum design of vibration absorbers for structurally damped Timoshenko beams, J Vib Acoust **120**(4) 833-841 (Oct 1998), 2A200
Smart internal vibration suppressor for a helicopter blade: A feasibility study, J Sound Vib **215**(2) 211-229 (Aug 1998), 2A203
Optimization of piezoceramic sensor-actuator placement for vibration control of laminated plates, AIAA J **36**(9) 1763-1765 (Sep 1998), 2T220
Characterization of laws of friction in the context of engine blade dynamics, J Eng Gas Turbines Power **120**(4) 759-765 (Oct 1998), 2A239
Dynamics of a rotating system with a nonlinear eddy-current damper, J Vib Acoust **120**(4) 848-853 (Oct 1998), 2A263

LMI approach to H_∞-control of time-delay systems for the benchmark problem, Earthquake Eng Struct Dyn **27**(9) 957-976 (Sep 1998), 2A481
Stability of the hybrid-damped resolved-acceleration control, J Robotic Syst **15**(9) 505-510 (Sep 1998), 2A530
Experimental investigation of composite beams with piezoelectric actuation and debonding, Smart Mat Struct **7**(4) 502-511 (Aug 1998), 2A673
Comparison between direct and indirect friction measurements in a forced oscillator, J Appl Mech **65**(3) 783-786 (Sep 1998), 2T1004
Modeling of friction oscillators, J Sound Vib **216**(3) 435-459 (Sep 1998), 3A107
Approximate equivalent vibration system for nonlinear horizontal oscillation of liquid in rectangular TLD (Japanese), Proc JSCE **598**(I-44) 111-123 (Jul 1998), 3A119
Collocated piezoelectric sensor-actuator pair feasible for an intelligent beam, J Sound Vib **216**(3) 529-538 (Sep 1998), 3T120
Combined tuned absorber and pendulum impact damper under random excitation, J Sound Vib **216**(2) 199-213 (Sep 1998), 3A121
Control of bending and twisting vibration in the presence of thermal deformation, J Intelligent Mat Syst Struct **8**(12) 1026-1034 (Dec 1997), 3A122
Controlled constrained damping of layered system (Chinese), J Xi'an Jiaotong Univ **32**(8) 67-71 (1998), 3A123
Damping of patched structures subjected to acoustic fatigue: A numerical study, Polymers and Polymer Composites **6**(3) 133-142 (1998), 3A124
Design of a model-based compensator for active suppression of vibrations on a slender elastic beam, European J Mech Eng **43**(3) 115-122 (1998), 3A125
Experimental investigations on the active vibration control of chain drives, Noise Control Eng J **46**(4) 139-145 (Jul-Aug 1998), 3A126
Inertial stick-slip actuator for active control of shape and vibration, J Intelligent Mat Syst Struct **8**(12) 1001-1011 (Dec 1997), 3A127
Optimal design of tuned mass dampers by random vibration methods (Japanese), Proc JSCE **598**(I-44) 371-379 (Jul 1998), 3A128
Optimum arrangement of plural tuned mass damper for suppressing several vibration modes of beam (Japanese), Proc JSCE **598**(I-44) 75-83 (Jul 1998), 3T129
Shape optimization of unconstrained viscoelastic layers using continuum FEs, J Sound Vib **216**(1) 29-52 (Sep 1998), 3A130
Viscoelastic dynamic vibration absorber with adaptable suppression band: A feasibility study, J Sound Vib **216**(1) 133-145 (Sep 1998), 3A131
Lumped parameter representation of a longitudinally vibrating elastic rod viscously damped in-span, J Sound Vib **216**(2) 328-336 (Sep 1998), 3T141
Sensitivities of the eigenvalues of a viscously damped cantilever carrying a tip mass, J Sound Vib **216**(2) 215-225 (Sep 1998), 3A148
Complex eigensolutions of rectangular plates with damping patches, J Sound Vib **216**(1) 1-28 (Sep 1998), 3A158
Active control of vibrations and noise of double wall cylindrical shells, J Sound Vib **216**(5) 865-888 (Oct 1998), 3A169
Sound power minimization of circular plates through damping layer placement, J Sound Vib **215**(5) 1145-1163 (Sep 1998), 3A329
Effective selection of piezoceramic actuators for an experimental flexible wing, J Guidance Control Dyn **21**(5) 704-709 (Sep-Oct 1998), 3T411
Vibrations of Elasto-Plastic Bodies (Springer-Verlag, Berlin, 1998) 4R10
Viscoelastic Solids (CRC Press, Boca Raton FL, 1998) 4R11
Active suppression of the vibration of a flexible beam using an eddy current sensor, J Sound Vib **217**(2) 387-395 (Oct 1998), 4T126
Adaptive periodic disturbance cancellation in a set-up of two cryocoolers, J Sound Vib **217**(3) 419-434 (Oct 1998), 4A127
Dynamic absorber for a suspended platform, Strojnicky Casopis **49**(5) 307-318 (1998), 4A128
Identifying damping of a gyroscopic system through the half-power method and its applications to rotating disk-spindle systems, J Vib Acoust **121**(1) 70-77 (Jan 1999), 4A129
Influence of fluid inertia forces on the sudden unbalance responses of squeeze-film damper supported rotors, Proc Inst Mech Eng J: Eng Trib **212**(J5) 353-357 (1998), 4T130
Parameter identification of non-classically damped mechanical structures in time domain, Inverse Prob Eng **6**(2) 155-175 (1998), 4A131
Reliability of the piezoelectric layer application to vibration and noise controls, J Vib Acoust **121**(1) 137-139 (Jan 1999), 4A132
Stability of piecewise linear oscillators with viscous and dry friction damping, J Sound Vib **217**(3) 507-522 (Oct 1998), 4A133
Bending vibration control of cantilevers via boundary moment and combined feedback control laws, J Vib and Control **4**(6) 733-746 (Nov 1998), 4A136
Theoretical and experimental study on airflow damping of vibrating microcantilevers, J Vib Acoust **121**(1) 64-69 (Jan 1999), 4A148
Adaptive vibration control of an axially moving string, J Vib Acoust **121**(1) 41-49 (Jan 1999), 4A151
Vibration control of bridge towers using a lumped modeling approach, J Vib Acoust **121**(1) 95-100 (Jan 1999), 4A185
Almost classically damped continuous linear systems, J Appl Mech **65**(4) 1022-1031 (Dec 1998), 5A108
Asymptotic states of a bilinear hysteretic oscillator in a fully dissipative phase space, J Sound Vib **218**(3) 548-557 (Dec 1998), 5T109
Benchmark problems, Earthquake Eng Struct Dyn **27**(11) 1125-1397 (Nov 1998), 5A110
Exact controllability of a linear Euler-Bernoulli panel, J Sound Vib **217**(4) 637-652 (Nov 1998), 5A111
Optimal location and gains of feedback controllers at discrete locations, AIAA J **36**(11) 2109-2116 (Nov 1998), 5A112
Van der Pol's oscillator under delayed feedback, J Sound Vib **218**(2) 333-339 (Nov 1998), 5A113
Existence of normal modes of damped discrete-continuous systems, J Appl Mech **65**(4) 980-989 (Dec 1998), 5A116
Intelligent beam transforming earthquake force into vibration control force and its optimal design, J Sound Vib **218**(3) 445-461 (Dec 1998), 5A121
Modal analysis of flexible beams with delayed resonator vibration absorber: Theory and experiments, J Sound Vib **218**(2) 307-331 (Nov 1998), 5A122
Adaptive boundary control of out-of-plane cable vibration, J Appl Mech **65**(4) 963-969 (Dec 1998), 5A127
Universal bumpered vibration isolator for severe environment, J Sound Vib **218**(2) 269-292 (Nov 1998), 5A169
Vibration control of shallow shell structures using a shell-type dynamic vibration absorber, J Sound Vib **218**(2) 245-267 (Nov 1998), 5A171
Damping of Vibrations (Balkema, Rotterdam, Netherlands, 1998) 6N7
Upper bound on responses of non-classically damped linear systems, J Sound Vib **218**(5) 883-891 (Dec 1998), 6T115
Adaptive vibration control by using magnetostrictive actuator, J Intelligent Mat Syst Struct **9**(2) 87-94 (Feb 1998), 6A120
Automated design technique for nonlinear structures and controllers, J Vib and Control **5**(1) 123-150 (Jan 1999), 6A121
Calculation method for the sensitivities of frequency responses of viscous damped system, J Vib Eng **11**(4) 457-461 (Dec 1998), 6T122
Damping improvement of machine tool columns with polymer matrix fiber composite material, Composite Struct **43**(2) 155-163 (Oct 1998), 6A123
Experimental investigation of the pseudoelastic hysteresis damping characteristics of shape memory alloy wires, J Intelligent Mat Syst Struct **9**(2) 116-126 (Feb 1998), 6A124
Forced vibration responses of a viscoelastic structure, J Sound Vib **218**(5) 892-907 (Dec 1998), 6T125
Full scale measurements of damping in a 78-story tall building, Adv in Struct Eng **2**(1) 41-48 (Nov 1998), 6A126
Fuzzy logic control of bridge structures using intelligent semi-active seismic isolation systems, Earthquake Eng Struct Dyn **28**(1) 37-60 (Jan 1999), 6A127
General model for damping, J Sound Vib **218**(5) 749-767 (Dec 1998), 6A128
Integral-differential equation approach for the free vibration of a SDOF system with hysteretic damping, Adv Eng Software **30**(1) 43-48 (Jan 1999), 6A129
Mass dampers and their optimal designs for building vibration control, Eng Struct **21**(5) 454-463 (May 1999), 6A130
Modal expansion of structural systems with time delays, AIAA J **36**(12) 2218-2224 (Dec 1998), 6A131
Multicriterion optimization of linear dynamic vibroprotective system with additional coupling by acceleration (Russian), Prikl Mekh (Appl Mech) **34**(9) 107-111 (1998), 6A132
Optimal control of laminated plate with piezoelectric sensor and actuator layers, AIAA J **36**(12) 2204-2208 (Dec 1998), 6A133
Oscillation control of cantilevers via smart materials technology and optimal feedback control: Actuator location and power consumption issues, Smart Mat Struct **7**(6) 833-842 (Dec 1998), 6A134
Recursive damping least square estimation of dynamic characteristics for journal bearings, J Vib Eng **11**(4) 410-415 (Dec 1998), 6T135
Role of damping in seismic isolation, Earthquake Eng Struct Dyn **28**(1) 3-20 (Jan 1999), 6A136
Solution of eigenvalue problems for non-classically damped systems with multiple frequencies, J Sound Vib **219**(2) 207-222 (Jan 1999), 6A137
Study on response computation of dry friction damped vibration system, J Vib Eng **11**(4) 472-476 (Dec 1998), 6T138
Trends on active vibration and noise control, Int J Japan Soc Precision Eng **32**(3) 155-159 (Sep 1998), 6A139
Vibration control of a rotor system by disk type electrorheological damper, J Sound Vib **219**(1) 175-188 (Jan 1999), 6T140
Recommended control configurations for DC drives with flexible shafts, J Vib and Control **5**(1) 95-122 (Jan 1999), 6A178
Comparison of two cocured damped composite torsion shafts, Composite Struct **43**(2) 115-125 (Oct 1998), 6A613
Optimal design of passive energy dissipation devices for seismic protection of bridges (Japanese), Proc JSCE **605**(I-45) 241-252 (Oct 1998), 6A1018
Active vibration control of buildings with smart structures, Int J Japan Soc Precision Eng **32**(3) 160-165 (Sep 1998), 6A1024
Adaptive base isolation system for the control of seismic energy flow into buildings, J Intelligent Mat Syst Struct **9**(2) 104-115 (Feb 1998), 6A1492
Active control of MDOF structures with supplemental electrorheological fluid dampers, Earthquake Eng Struct Dyn **28**(2) 143-156 (Feb 1999), 7A122
Development of approximate methods for the analysis of patch damping design concepts, J Sound Vib **219**(5) 785-812 (Feb 1999), 7A123
Field test of an intelligent stiffener for bridges at the I-35 Walnut Creek bridge, Earthquake Eng Struct Dyn **28**(2) 109-126 (Feb 1999), 7A124
Influence of amplitude of vibrations on loss factors of Laminated composite beams and plates, J Sound Vib **219**(4) 730-738 (Jan 1999), 7T125
Mechanical systems with a single viscous damper subject to a constraint equation, Comput Struct **70**(3) 299-303 (Feb 1999), 7A126
Model reduction of viscoelastic FE models, J Sound Vib **219**(4) 619-637 (Jan 1999), 7A127
Optimal control design with continuous disturbance and acceleration output (Chinese), J Shanghai Jiaotong Univ **32**(11) 93-97 (Nov 1998), 7A128
Performance characteristics of a vibration isolator with electro-rheological fluids, J Sound Vib **219**(3) 395-404 (Jan 1999), 7A129
Supplemental damping for seismic strengthening: A case study, Eng Struct **21**(7) 603-614 (Jul 1999), 7A130
Tuning criterion for the inertial tuned damper: Design using phasors in the Argand-Gauss plane, Appl Math Model **23**(3) 199-217 (Mar 1999), 7A131
Decay rates of solutions to a von Karman system for viscoelastic plates with memory, Quart Appl Math **57**(1) 181-200 (Mar 1999), 7A150
Torsional vibration and damping analysis of sandwich beams, J Reinforced Plastics Composites **18**(2) 96-117 (1999), 7A169
Optimal placement of DVFC controllers on buildings subjected to earthquake loading, Earthquake Eng Struct Dyn **28**(2) 127-141 (Feb 1999), 7A177
Experimental characterization of damping force in shock absorbers with constant velocity excitation, Vehicle Syst Dyn **30**(6) 431-442 (Dec 1998), 7A201
Expected residual vibration of traditional and hybrid input shaping designs, J Guidance Control Dyn **22**(1) 162-165 (Jan-Feb 1999), 7T380
Passive Vibration Control (Wiley, New York, 1999) 8R6
Further insight into self-adjoint second-order systems, J Vib and Control **5**(2) 237-252 (Mar 1999), 8A105
Characterization of the pseudoelastic damping behavior of shape memory alloy wires using complex modulus, Smart Mat Struct **8**(1) 49-56 (Feb 1999), 8A112
Efficient liquid slosing damper for vibration control, J Fluids Struct **12**(8) 1055-1071 (Nov 1998), 8A113
Experimental investigation of different actuator technologies for active vibration control, Smart Mat Struct **8**(1) 145-153 (Feb 1999), 8A114
New method for reduced-order feedback control using genetic algorithms, Earthquake Eng Struct Dyn **28**(3) 235-254 (Mar 1999), 8A115
Optimal vibration feedback control of an Euler-Bernoulli beam: Toward realization of the active sink method, J Vib Acoust **121**(2) 174-182 (Apr 1999), 8A116
Passive damper for the vibration modes of the head actuator in hard disk drives, J Sound Vib **220**(4) 683-694 (Mar 1999), 8A117
Qualitative characterization of anti-swirl gas dampers, J Eng Gas Turbines Power **121**(2) 342-348 (Apr 1999), 8A118
Simultaneous optimization of structure and control for vibration suppression, J Vib Acoust **121**(2) 237-243 (Apr 1999), 8A119
Structural damping characteristics of active piezoelectric actuators with passive shunt, J Sound Vib **221**(1) 1-22 (Mar 1999), 8A120
Theoretical and experimental study of the vibratory dynamics of high-precision optical positioning systems, J Vib and Control **5**(2) 195-216 (Mar 1999), 8A121
Transient response analysis of 1D distributed parameter systems, Int J Solids Struct **36**(19) 2807-2824 (Jul 1999), 8A122
Vibration control simulation of laminated composite plates with integrated piezoelectrics, J Sound Vib **220**(5) 827-846 (Mar 1999), 8A123
Dynamics of delaminated composite plates with piezoelectric actuators, AIAA J **37**(2) 248-254 (Feb 1999), 8A145
Hybrid control of vibration of thin plate with active constrained damping layer, Appl Math Mech **19**(12) 1119-1134 (Dec 1998), 8A150
Bulk-flow analysis of multiple-pocket gas damper seals, J Eng Gas Turbines Power **121**(2) 355-363 (Apr 1999), 8A167
Aseismic roof isolation system: Analytic and shake table studies, Earthquake Eng Struct Dyn **28**(3) 217-234 (Mar 1999), 8A182
Centrifugal delayed resonator as a tunable torsional vibration absorber for multi-dof systems, J Vib and Control **5**(2) 299-322 (Mar 1999), 8A188
Robust control of a spindle-magnetic bearing system using sliding-mode control and variable structure system disturbance observer, J Vib and Control **5**(2) 277-298 (Mar 1999), 8A194
Control of a 1-dof juggling robot, Dyn Control **9**(1) 67-90 (Jan 1999), 8A422
Development of mathematical model of a plate for active vibration suppression, J Vib and Control **5**(2) 175-194 (Mar 1999), 8A423
Analytical dynamic performance modeling for individual C-block actuators, J Vib Acoust **121**(2) 221-230 (Apr 1999), 8A847
Active vibration control of a distributed-parameter structure: Proposition of cluster control, JSME Int J Ser C **42**(1) 10-17 (Mar 1999), 9A117
Comparative study of methods for optimizing sensor and actuator locations in active control applications, J Sound Vib **221**(4) 651-679 (Apr 1999), 9A118
Design optimization of passive gyroscopic damper: Stability degree maximization, JSME Int J Ser C **40**(4) 643-651 (Dec 1997), 9A119
Destabilizating effects of rate feedback on strain actuated beams, J Sound Vib **221**(2) 289-307 (Mar 1999), 9A120
Frequency driven phasic shifting and elastic-hysteretic partitioning properties of fractional mechanical system representation schemes, J Franklin Inst **336**(3) 423-433 (Apr 1999), 9A121
Fundamental study on vibration control using the derivative of acceleration "jerk" sensor, JSME Int J Ser C **41**(4) 786-791 (Dec 1998), 9A122
Properties of vibration with fractional derivative damping of order 1/2, JSME Int J Ser C **40**(3) 393-399 (Sep 1997), 9A123
Vibration control of mobile robot vehicle by dynamic vibration absorber, JSME Int J Ser C **42**(1) 61-70 (Mar 1999), 9A124
Robust vibration control of a cantilever beam using self-sensing actuator, JSME Int J Ser C **40**(4) 681-687 (Dec 1997), 9A142
Damped vibration of composite plates with passive piezoelectric-resistor elements, J Sound Vib **221**(5) 867-885 (Apr 1999), 9A152
Dynamics and robust control of a high speed optical pickup, J Sound Vib **221**(4) 607-621 (Apr 1999), 9A153
Using neural networks to model and predict amplitude dependent damping in buildings, Wind Struct **2**(1) 25-40 (Mar 1999), 9T185
Active vibration isolation control for a multi-dof structure with uncertain base dynamics, JSME Int J Ser C **41**(1) 37-45 (Mar 1998), 9A204
Active dynamic vibration absorber with automatic frequency-tracking performance, JSME Int J Ser C **41**(3) 378-383 (Sep 1998), 9A205
Improving the performance of a vibration neutralizer by actively removing damping, J Sound Vib **221**(4) 587-606 (Apr 1999), 9A206
Damping properties of the viscoelastic material described by fractional Kelvin-Voigt model, JSME Int J Ser C **42**(1) 1-9 (Mar 1999), 9A219
Gain-scheduling H_∞ vibration control of SCARA type robot manipulators, JSME Int J Ser C **41**(4) 879-885 (Dec 1998), 9A435
Robust identification and control design for truck cab model device, JSME Int J Ser C **41**(2) 171-177 (Jun 1998), 9A475
Recent research on enhancement of damping in polymer composites, Composite Struct **44**(2-3) 89-98 (Feb-Mar 1999), 9A661
Vibration control of a four-bar mechanism with a flexible coupler link, J Sound Vib **222**(2) 171-189 (Apr 1999), 10A118
Null space solution of Jordan chains for derogatory eigenproblems, J Sound Vib **222**(4) 679-690 (May 1999), 10T138
Active control of synchronous machine vibrations (French), Rev Francaise Mec **0**(1) 19-25 (Mar 1999), 10A144
Adaptive vibration control by a variable-damping dynamic absorber using ER fluid, J Vib Acoust **121**(3) 373-378 (Jul 1999), 10A145
Asymptotic behavior of an oscillator excited by dry friction forces, J Sound Vib **222**(4) 521-530 (May 1999), 10A146
Control law for variable damping device defined by a nonlinear differential equation, Earthquake Eng Struct Dyn **28**(5) 529-541 (May 1999), 10A147
Damping behavior of cantilevered structronic systems with boundary control, J Vib Acoust **121**(3) 402-407 (Jul 1999), 10A148

Determining the loss factor by the power input method - Part 1: Numerical investigation, J Vib Acoust **121**(3) 417-421 (Jul 1999), 10A149
Determining the loss factor by the power input method - Part 2: Experimental investigation with impact Hammer excitation, J Vib Acoust **121**(3) 422-428 (Jul 1999), 10A150
Optimal placement of piezoelectric sensors and actuators for vibration control of a composite plate using genetic algorithms, Smart Mat Struct **8**(2) 257-267 (Apr 1999), 10A151
Vibration control of rotationally periodic structures using passive piezoelectric shunt networks and active compensation, J Vib Acoust **121**(3) 379-390 (Jul 1999), 10A152
Vibration quenching of an externally excited pendulum system, Strojnicky Casopis **50**(2) 119-132 (1999), 10A153
Analytical and experimental evaluation of an air damped dynamic vibration absorber: Design optimization of the three-element type model, J Vib Acoust **121**(3) 334-342 (Jul 1999), 10A238
Active vibration control system of smart structures based on FOS and ER actuator, Smart Mat Struct **8**(2) 252-256 (Apr 1999), 10A980
New lateral vibration damper using leaf springs, J Vib Acoust **121**(3) 343-350 (Jul 1999), 10A1036
Stochastic dynamics of systems with friction-induced vibration, J Sound Vib **223**(1) 115-140 (May 1999), 11A168
Comparison of numerical methods applied to a fractional model of damping materials, J Vib and Control **5**(3) 331-354 (May 1999), 11A171
Control on dynamic structural response using active-passive composite-tuned mass dampers, J Vib and Control **5**(3) 475-489 (May 1999), 11A172
Damping predication of sandwich structures by order-reduction-iteration approach, J Sound Vib **222**(5) 803-812 (May 1999), 11A173
Dynamic condensation approach for nonclassically damped structures, AIAA J **37**(5) 564-571 (May 1999), 11A174
Exponentially stabilizing boundary control of string-mass systems, J Vib and Control **5**(3) 491-502 (May 1999), 11A175
Mechanical systems with a single viscous damper subject to several constraint equations, J Sound Vib **223**(2) 317-325 (Jun 1999), 11T176
Modeling of a flexible beam with piezoelectric plates for active vibration control, J Sound Vib **223**(3) 483-492 (Jun 1999), 11T177
Natural frequency and mode shape sensitivities of damped systems - Part I: Distinct natural frequencies, J Sound Vib **223**(3) 399-412 (Jun 1999), 11A178
Natural frequency and mode shape sensitivities of damped systems - Part II: Multiple natural frequencies, J Sound Vib **223**(3) 413-424 (Jun 1999), 11A179
Non-monotonic optimal damper placement via steepest direction search, Earthquake Eng Struct Dyn **28**(6) 655-670 (Jun 1999), 11A180
Nonlinear numerical model of the tuned liquid damper, Earthquake Eng Struct Dyn **28**(6) 671-686 (Jun 1999), 11A181
Passive control of overhead cranes, J Vib and Control **5**(3) 443-459 (May 1999), 11A182
Predictive optimal control for seismic analysis of nonlinear and hysteretic structures, Earthquake Eng Struct Dyn **28**(6) 585-607 (Jun 1999), 11A183
Real-time structural parameter modification (RSPM) approach for random vibration reduction - Part I: Principle, Probab Eng Mech **14**(4) 349-362 (Oct 1999), 11A184
Real-time structural parameter modification, approach for random vibration reduction - Part II: Experimental verification, Probab Eng Mech **14**(4) 363-381 (Oct 1999), 11A185
Solution method for boundary control of 1D multispan vibrating systems, J Vib and Control **5**(3) 373-399 (May 1999), 11A186
Synthesis technique for the nonclassically damped structures using real Schur vectors, AIAA J **37**(5) 660-662 (May 1999), 11T187
Design of optimum support parameters for minimum rotor response and maximum stability limit, J Sound Vib **223**(1) 1-21 (May 1999), 11A212
Experimental investigation of adjacent buildings connected by fluid damper, Earthquake Eng Struct Dyn **28**(6) 609-631 (Jun 1999), 11A216
Damping of the free oscillations of elastic systems using gyroscopes, J Appl Math Mech **63**(1) 21-24 (1999), 12A124
Effective control of torsional vibrations in drilling systems, J Sound Vib **224**(1) 101-122 (Jul 1999), 12A125
Estimation of forces generated by a machine mounted upon isolators under operating conditions, J Franklin Inst **336**(5) 875-892 (Jul 1999), 12A126
Non-dimensional parametric study of enhanced active constrained layer damping treatments, J Sound Vib **223**(4) 611-644 (Jun 1999), 12A127
Partial and segmented modal sensors for beam structures, J Vib and Control **5**(4) 619-637 (Jul 1999), 12A128
Precise and efficient computation of complex structures with TMD devices, J Sound Vib **223**(5) 693-701 (Jun 1999), 12A129
Single-mode control of a cantilever beam under principal parametric excitation, J Sound Vib **224**(1) 33-47 (Jul 1999), 12A130
Angstrom Laboratory: A vibration free building on loose sand, J Low Frequency Noise Vib **18**(1) 9-12 (1999), 12T165
Probabilistic characteristics of damping in buildings, Wind Struct **2**(2) 127-131 (Jun 1999), 12T166
Mode shapes during asynchronous motion and nonproportionality indices, J Sound Vib **224**(1) 1-16 (Jul 1999), 12A173
Application of smart-structure technology to rotor blade tip vibration control, J Vib and Control **5**(4) 639-658 (Jul 1999), 12A902

152Y. Computational techniques

Improved time integration for pseudodynamic tests, Earthquake Eng Struct Dyn **27**(7) 711-730 (Jul 1998), 1A15
Dry friction self-excited vibrations analysis and experiment, Eng Trans **45**(3-4) 487-504 (1997), 1A136
Application of wavelet transform to bifurcation and chaos study, Appl Math Mech **19**(6) 593-599 (Jun 1998), 2A147
Design sensitivity metric for structural dynamic response, AIAA J **36**(9) 1686-1693 (Sep 1998), 2A182
Input force reconstruction using a time domain technique, J Vib Acoust **120**(4) 868-874 (Oct 1998), 2A183
Transient response analysis of nonlinear modally coupled structural dynamics equations of motion, AIAA J **36**(8) 1486-1493 (Aug 1998), 2A184
Note on the statistics of ordered peaks in stationary stochastic processes, Soil Dyn Earthquake Eng **17**(5) 317-328 (Jul 1998), 2A1477
Bispectral analysis of the bilinear oscillator with application to the detection of fatigue cracks, J Sound Vib **216**(5) 889-910 (Oct 1998), 3A132
Comparing model update error residuals and effects on model predictive accuracy, AIAA J **36**(10) 1894-1900 (Oct 1998), 3A202
Application of homotopy analysis method in nonlinear oscillations, J Appl Mech **65**(4) 914-922 (Dec 1998), 5A87
Incremental mathematical programming model for solving elastic-dynamic damped contact systems, J Eng Appl Sci **45**(4) 585-602 (Aug 1998), 5A114
Solution of eigenvalue problems for non-classically damped systems with multiple frequencies, J Sound Vib **219**(2) 207-222 (Jan 1999), 6A137
Hybrid FE formulations for elastodynamic analysis in the frequency domain, Int J Solids Struct **36**(13) 1883-1923 (May 1999), 7A14
Computationally efficient algorithm for the solution of eigenproblems for large structures with non-proportional damping using Lanczos method, Earthquake Eng Struct Dyn **28**(2) 157-172 (Feb 1999), 7A39
Forced vibration analysis of a nonlinear structure connected in series: Stability analysis based on the argument principle, JSME Int J Ser C **41**(3) 583-591 (Sep 1998), 9A86
Comments on "Harmonic balance and continuation techniques in the dynamic analysis of Duffing's equation", J Sound Vib **221**(3) 525-529 (Apr 1999), 9T125
Variable step Rosenbrock algorithm for transient response of damped structures, Proc Inst Mech Eng C **213**(C2) 191-198 (1999), 9A126
Nonlinear transient response and second-order sensitivity using time FEM, AIAA J **37**(5) 613-622 (May 1999), 11A22
Comparison of numerical methods applied to a fractional model of damping materials, J Vib and Control **5**(3) 331-354 (May 1999), 11A171

152Z. Experimental techniques

Vibration field correlation of randomly excited flat plate structures - II: Experimental verification, J Sound Vib **214**(3) 469-496 (Jul 1998), 1A129
Dry friction self-excited vibrations analysis and experiment, Eng Trans **45**(3-4) 487-504 (1997), 1A136
Structural vibration control using PZT patches and nonlinear phenomena, J Sound Vib **215**(2) 273-296 (Aug 1998), 2A179
Experimental study of a symmetrical piecewise base-excited oscillator, J Appl Mech **65**(3) 657-663 (Sep 1998), 2A185
Calibration of accelerometers for the measurement of microvibrations, J Spacecraft Rockets **35**(5) 695-702 (Sep-Oct 1998), 4A134
Recent applications of the IMA infrared transducer in the analysis of vibrating mechanical systems, J Sound Vib **220**(4) 757-764 (Mar 1999), 8T124
Digital vibration dosimeter for field measurements, J Sound Vib **221**(5) 906-916 (Apr 1999), 9T127
Localized vibrational modes of interstitial oxygen in Si_xGe_{1-x} alloys, Acta Phys Polonica A **94**(3) 436-440 (Sep 1998), 9A128
Real-time structural parameter modification, approach for random vibration reduction - Part II: Experimental verification, Probab Eng Mech **14**(4) 363-381 (Oct 1999), 11A185
Structural Dynamics: Eurodyn '99, Volume 1 (Balkema, Rotterdam, Netherlands, 1999) 12N8

154. VIBRATIONS (STRUCTURAL ELEMENTS)

Dynamic analysis of plates by boundary elements, Appl Mech Rev **52**(7) 213-236 (Jul 1999), 8A54

154B. Beams, columns, rods, and bars

Simple cubic linear element for static and free vibration analyses of curved beams, Comput Struct **68**(5) 473-489 (Sep 1998), 1A51
Boundary control of free and forced oscillation of shearable thin-walled beam cantilevers, Eur J Mech A **17**(4) 687-700 (1998), 1A137
Constructing the shape of a rod from eigenvalues, Commun Numer Methods Eng **14**(7) 597-608 (Jul 1998), 1A138
Eigenanalysis of edge-cracked free-free Timoshenko beam, Mech Res Commun **25**(4) 473-478 (Jul-Aug 1998), 1T139
Eigenoscillations of mechanical systems with boundary conditions containing the frequency, Quart Appl Math **56**(3) 521-541 (Sep 1998), 1A140
Energy flow analysis of beams and plates for random distributed loading, J Fluids Struct **12**(3) 315-333 (Apr 1998), 1A141
Further note on the "dynamic analysis of generally supported beams using Fourier series", J Sound Vib **214**(5) 972-973 (Jul 1998), 1T142
Modal analyses and experiments for engine crankshafts, J Sound Vib **214**(3) 413-430 (Jul 1998), 1A143
Rational mode the degree of interaction in composite beams with flexible shear connectors, Mech Struct Machines **26**(2) 175-194 (1998), 1A144
Transient vibrations of a simply-supported beam with axial loads and transverse magnetic fields, Mech Struct Machines **26**(2) 115-130 (1998), 1A145
Vibration analysis for stability of singular non-self-adjoint beam-columns using stochastic FEM, Comput Struct **68**(5) 543-554 (Sep 1998), 1A146
Behavior of a yawed projectile penetrating a thin plate, Int J Impact Eng **21**(7) 597-608 (Aug 1998), 1A240
Comparison of viscoelastic models in simulating the transient response of a slewing polymer arm, J Dyn Syst Meas Control **120**(3) 340-345 (Sep 1998), 1A421
Variational derivation of the dynamic equilibrium equations of nonprismatic thin-walled beams defined on an arbitrary coordinate system, Mech Struct Machines **26**(2) 219-237 (1998), 1T666
Modeling of a flexible slewing link, J Vib Acoust **120**(4) 994-996 (Oct 1998), 2A140
Characteristics of enhanced active constrained layer damping treatments with edge elements - Part 1: FE model development and validation, J Vib Acoust **120**(4) 886-893 (Oct 1998), 2A168
Characteristics of enhanced active constrained layer damping treatments with edge elements - Part 2: System analysis, J Vib Acoust **120**(4) 894-900 (Oct 1998), 2A169
Structural vibration control using PZT patches and nonlinear phenomena, J Sound Vib **215**(2) 273-296 (Aug 1998), 2A179
Vibration and sound radiation controls of beams using layered modal sensors and actuators, Smart Mat Struct **7**(4) 446-455 (Aug 1998), 2A180
Analysis of contact mechanics for a circular filamentary brush-workpart system, J Manuf Sci Eng **120**(4) 715-721 (Nov 1998), 2A186
Continuous cracked beam vibration theory, J Sound Vib **215**(1) 17-34 (Aug 1998), 2A187
Crack identification in a cantilever beam using coupled response measurements, J Eng Gas Turbines Power **120**(4) 775-777 (Oct 1998), 2A188
Deterministic and stochastic response of nonlinear coupled bending-torsion modes in a cantilever beam, Nonlinear Dyn **16**(3) 259-292 (Jul 1998), 2A189
Dynamic behavior of the band-wheel mechanical system of industrial band saws, J Vib Acoust **120**(4) 842-847 (Oct 1998), 2A190
Dynamic characteristics and mode localization elastically constrained axially moving strings and beams, J Sound Vib **215**(3) 455-473 (Aug 1998), 2A191
Eigenfrequencies for mass loaded beams under classical boundary conditions, J Sound Vib **215**(2) 381-389 (Aug 1998), 2T192
Experimental determination of the total vibratory power transmission in an elastic beam, J Acoust Soc Am **104**(2-PT1) 898-906 (Aug 1998), 2A193
Experimentally verified nonlinear damping model for large amplitude random vibration of a clamped-clamped beam, J Sound Vib **215**(2) 343-379 (Aug 1998), 2A194
Extensional vibration modes of elastic rods of finite length which include the effect of lateral deformation, J Sound Vib **215**(3) 577-586 (Aug 1998), 2T195
Free vibration of axially loaded composite Timoshenko beams using the dynamic stiffness matrix method, Comput Struct **69**(2) 197-208 (Oct 1998), 2A196
Free vibration of beams with two sections of distributed mass, J Vib Acoust **120**(4) 944-948 (Oct 1998), 2A197
Limit cycle measurements from a cantilever beam attached to a rotating body, AIAA J **36**(8) 1540-1541 (Aug 1998), 2T198
Natural frequencies and normal modes for externally damped spinning Timoshenko beams with general boundary conditions, J Appl Mech **65**(3) 770-772 (Sep 1998), 2A199
Optimum design of vibration absorbers for structurally damped Timoshenko beams, J Vib Acoust **120**(4) 833-841 (Oct 1998), 2A200
Out-of-plane dynamic responses of non-circular curved beams by numerical Laplace transform, J Sound Vib **215**(3) 407-424 (Aug 1998), 2A201
Pretwisted nonuniform beams with time-dependent elastic boundary conditions, AIAA J **36**(8) 1516-1523 (Aug 1998), 2A202
Smart internal vibration suppressor for a helicopter blade: A feasibility study, J Sound Vib **215**(2) 211-229 (Aug 1998), 2A203
Three-dimensional free vibration of pretwisted beams, AIAA J **36**(8) 1524-1528 (Aug 1998), 2A204
Transition behavior from string to beam for an axially accelerating material, J Sound Vib **215**(3) 571-576 (Aug 1998), 2T205
Vibration and damping analysis of thin-walled box beams, J Sound Vib **215**(2) 201-210 (Aug 1998), 2A206
Vibration of thick prismatic structures with 3D flexibilities, J Appl Mech **65**(3) 619-625 (Sep 1998), 2A207
Vibrational power flow in beam-plate structures with isolation components, Proc Inst Mech Eng E **212**(E2) 89-101 (1998), 2A208
Vibration and buckling of initially stressed curved beams, J Sound Vib **215**(3) 511-526 (Aug 1998), 2A245
Stability of a flexible wheelset for high speed rail vehicles with constant and varying parameters, J Vib Acoust **120**(4) 997-1002 (Oct 1998), 2A265
Steady-state response of continuous nonlinear rotor-bearing systems using analytical approach, J Eng Gas Turbines Power **120**(4) 751-758 (Oct 1998), 2A266
Eigenstructure assignment technique for damage detection in rotating structures, AIAA J **36**(9) 1680-1685 (Sep 1998), 2A466
Sticking model of suspended polysilicon microstructure including residual stress gradient and postrelease temperature, J Microelectromechanical Syst **7**(3) 339-344 (Sep 1998), 2T549
Study on mode localization phenomena: Influences of the stiffness and the mass of the coupler on mode localization, J Sound Vib **216**(1) 53-73 (Sep 1998), 3A117
Design of a model-based compensator for active suppression of vibrations on a slender elastic beam, European J Mech Eng **43**(3) 115-122 (1998), 3A125
Dynamic dispersion curves for non-homogeneous, anisotropic beams with cross-sections of arbitrary geometry, J Sound Vib **215**(5) 1101-1120 (Sep 1998), 3A133
Dynamic modeling of a nonlinearly constrained flexible manipulator with a tip mass by Hamilton's principle, J Sound Vib **216**(5) 751-769 (Oct 1998), 3A134
Dynamic stability of a free-free Timoshenko beam subjected to a pulsating follower force, J Sound Vib **216**(4) 623-636 (Oct 1998), 3A135
Eigencharacteristics of a longitudinally vibrating rod restrained by a linear spring in-span, J Sound Vib **216**(5) 916-921 (Oct 1998), 3T136
Eigenfrequencies of longitudinally vibrating rods carrying a tip mass and spring-mass in-span, J Sound Vib **216**(2) 295-308 (Sep 1998), 3A137
Eigenvalues of a viscously damped cantilever carrying a tip mass, J Sound Vib **216**(2) 309-314 (Sep 1998), 3T138
Flexural vibrations of rotating beams considering rotary inertia, Comput Struct **69**(3) 321-328 (Nov 1998), 3A139
Free vibration of immersed column carrying a tip mass, J Sound Vib **216**(1) 147-157 (Sep 1998), 3A140
Lumped parameter representation of a longitudinally vibrating elastic rod viscously damped in-span, J Sound Vib **216**(2) 328-336 (Sep 1998), 3T141

Nonlinear vibration of a multilayer sandwich beam with viscoelastic layers, J Sound Vib **216**(4) 601-621 (Oct 1998), 3A142
Nonlinear vibrations of viscoelastic moving belts - Part I: Free vibration analysis, J Sound Vib **216**(1) 75-91 (Sep 1998), 3A143
Nonlinear vibrations of viscoelastic moving belts - Part II: Forced vibration analysis, J Sound Vib **216**(1) 93-105 (Sep 1998), 3A144
Prediction of free-free modes from single point support ground vibration test of launch vehicles, J Sound Vib **216**(4) 739-747 (Oct 1998), 3T145
Remote identification of impact forces on loosely supported tubes - Part 1: Basic theory and experiments, J Sound Vib **215**(5) 1015-1041 (Sep 1998), 3A146
Remote identification of impact forces on loosely supported tubes - Part 2: Complex vibro-impact motions, J Sound Vib **215**(5) 1043-1064 (Sep 1998), 3A147
Sensitivities of the eigenvalues of a viscously damped cantilever carrying a tip mass, J Sound Vib **216**(2) 215-225 (Sep 1998), 3A148
Stochastic approach of the energy analysis for 1D structures, J Sound Vib **216**(3) 361-378 (Sep 1998), 3A149
Symbolic boundary integral equation formulation for coupled vibrations of asymmetric beams, Commun Numer Methods Eng **14**(8) 763-772 (Aug 1998), 3A150
Vibrations of a beam-mass systems using artificial neural networks, Comput Struct **69**(3) 339-347 (Nov 1998), 3A151
Maximum principle for optimal boundary control of vibrating structures with applications to beams, Dyn Control **8**(4) 355-375 (Oct 1998), 3A395
Boundary controllability of a hybrid system consisting in two flexible beams connected by a point mass, SIAM J Control Optim **36**(5) 1576-1595 (Sep 1998), 3T408
Alternative formulations of the frequency equation of a Bernoulli-Euler beam to which several spring-mass systems are attached in-span, J Sound Vib **217**(3) 585-595 (Oct 1998), 4T135
Bending vibration control of cantilevers via boundary moment and combined feedback control laws, J Vib and Control **4**(6) 733-746 (Nov 1998), 4A136
Dynamic torsional response of a laminated circular disc, J Vib Acoust **121**(1) 1-7 (Jan 1999), 4A137
Endpoint control of a two-link flexible manipulator, J Vib and Control **4**(6) 747-766 (Nov 1998), 4A138
Interpolation of rotational variables in nonlinear dynamics of 3D beams, Int J Numer Methods Eng **43**(7) 1193-1222 (Dec 1998), 4A139
Longitudinal and rotational coupled vibration of viscoelastic bars with tip mass, Int J Non-Linear Mech **34**(1) 111-116 (Jan 1999), 4A140
L^2-error estimate for the strongly damped extensible beam equations, Appl Math Lett **11**(6) 101-107 (Nov 1998), 4A141
Mode interactions for a weakly nonlinear beam equation, Nonlinear Dyn **17**(1) 23-40 (Sep 1998), 4A142
Non-uniform Timoshenko beams with time-dependent elastic boundary conditions, J Sound Vib **217**(2) 223-238 (Oct 1998), 4A143
Nonlinear effects of vibration of a continuous transverse cracked slender shaft, J Sound Vib **217**(2) 321-333 (Oct 1998), 4A144
Optimum placement of bolts in structures based on dynamic shear, J Sound Vib **217**(2) 396-404 (Oct 1998), 4T145
Random vibration of multispan Timoshenko frames due to a moving load, Struct Eng and Mech **6**(6) 673-691 (Sep 1998), 4A146
Regular orbits exhibiting multiple impact characteristics from a cracked beam under sinusoidal excitation, Chaos Solitons Fractals **9**(9) 1473-1480 (Sep 1998), 4A147
Theoretical and experimental study on airflow damping of vibrating microcantilevers, J Vib Acoust **121**(1) 64-69 (Jan 1999), 4A148
Two-mode interaction of a beam with a nonlinear boundary condition, J Vib Acoust **121**(1) 84-88 (Jan 1999), 4A149
Wave characteristics and vibration control of translating beams by optimal boundary damping, J Vib Acoust **121**(1) 18-25 (Jan 1999), 4A150
Structural modal testing with various actuators and sensors, Mech Syst Signal Processing **12**(5) 627-639 (Sep 1998), 4A183
Dynamic response of anisotropic thin-walled beams to blast and harmonically oscillating loads, Int J Impact Eng **21**(8) 663-682 (Sep 1998), 4A226
Stabilization of a flexible beam with a tip mass, SIAM J Control Optim **36**(6) 1962-1986 (Nov 1998), 4A404
New golf-swing robot model utilizing shaft elasticity, J Sound Vib **217**(1) 17-31 (Oct 1998), 4A450
Finite element method of dynamical analysis of mechanisms with flexible links (Chinese), J Beijing IT **18**(4) 406-410 (Aug 1998), 5A23
Structural flexibility transformation matrix for modeling open-kinematic chains with revolute and prismatic joints, J Sound Vib **218**(1) 45-63 (Nov 1998), 5A82
Exact controllability of a linear Euler-Bernoulli panel, J Sound Vib **217**(4) 637-652 (Nov 1998), 5A111
Beam equation as a limit of a 1D nonlinear von Karman model, Appl Math Lett **12**(1) 47-52 (Jan 1999), 5A115
Existence of normal modes of damped discrete-continuous systems, J Appl Mech **65**(4) 980-989 (Dec 1998), 5A116
Finite element and dynamic stiffness methods compared for modal analysis of composite wings, AIAA J **36**(11) 2148-2151 (Nov 1998), 5T117
Free vibrations and modes of chimneys on an elastic foundation, J Sound Vib **218**(3) 541-547 (Dec 1998), 5T118
Frequency clusters in the spectrum of annular cylinders, J Appl Mech **65**(4) 797-803 (Dec 1998), 5A119
Geometric stiffening of Timoshenko beams, J Appl Mech **65**(4) 923-929 (Dec 1998), 5A120
Intelligent beam transforming earthquake force into vibration control force and its optimal design, J Sound Vib **218**(3) 445-461 (Dec 1998), 5A121
Modal analysis of flexible beams with delayed resonator vibration absorber: Theory and experiments, J Sound Vib **218**(2) 307-331 (Nov 1998), 5A122
Nonlinear dynamics of a slender beam carrying a lumped mass with principal parametric and internal resonances, Int J Non-Linear Mech **34**(3) 515-529 (May 1999), 5A123
Nonlinear vibration of Timoshenko beam due to a moving force and the weight of beam, J Sound Vib **218**(1) 117-131 (Nov 1998), 5A124
Optimal dynamic absorber for a rotating Rayleigh beam, J Sound Vib **217**(4) 653-664 (Nov 1998), 5A125
Vehicle driveline dynamic behavior: Experimentation and simulation, J Sound Vib **218**(1) 133-157 (Nov 1998), 5A126
Method of multiple scales for vibration analysis of rotor-shaft systems with nonlinear bearing pedestal model, J Sound Vib **218**(2) 293-305 (Nov 1998), 5A149
Numerical and experimental analysis of a continuous overhung rotor undergoing vibro-impacts, Int J Non-Linear Mech **34**(3) 415-435 (May 1999), 5A150
Structural damage identification: A probabilistic approach, AIAA J **36**(11) 2137-2145 (Nov 1998), 5A327
Experimental validation of reduction methods for nonlinear vibrations of distributed-parameter systems: Analysis of a buckled beam, Nonlinear Dyn **17**(2) 95-117 (Oct 1998), 5A561
Dynamic instability of a general column under a periodic load in the direction of the tangency coefficient at any axial position, J Sound Vib **217**(4) 665-689 (Nov 1998), 5A567
Composite element method for vibration analysis of structure - Part I: Principle and C^0 element (BAR), J Sound Vib **218**(4) 619-658 (Dec 1998), 6A45
Composite element method for vibration analysis of structure - Part II: C^1 element (beam), J Sound Vib **218**(4) 659-696 (Dec 1998), 6A46
Alternative equation of the flexural vibration, Acustica **84**(6) 999-1001 (Nov-Dec 1998), 6A141
Free vibration of a kinked cantilever with attached masses, J Acoust Soc Am **105**(1) 164-173 (Jan 1999), 6A142
Free vibration of thin-walled closed-section composite beams with optimum and near-optimum coupling, J Thermoplastic Composite Mat **12**(1) 2-12 (Jan 1999), 6A143
Further results for modal characteristics of rotating tapered Timoshenko beams, J Sound Vib **219**(1) 157-174 (Jan 1999), 6A144
Induced vibrations of piezolaminated elastic beams, Composite Struct **43**(1) 47-55 (Sep 1998), 6A145
Longitudinal vibration of a bar with a breathing crack, Eng Fracture Mech **61**(5-6) 503-518 (Nov-Dec 1998), 6A146
Longitudinal vibration of a continuous cracked bar, Eng Fracture Mech **61**(5-6) 593-606 (Nov-Dec 1998), 6A147
Non-linearly dynamic modeling of an axially moving beam with a tip mass, J Sound Vib **218**(4) 559-571 (Dec 1998), 6A148
Nonlinear vibration of a piezoelectric beam contacting with a fixed disk, J Sound Vib **219**(2) 339-357 (Jan 1999), 6A149
Study on vibration of infinite continuous beam under axial loads, J Vib Eng **11**(4) 443-449 (Dec 1998), 6A150
Vibration and stability of non-uniform beams with abrupt changes of cross-section by using C^1 modified beam vibration functions, Appl Math Model **23**(1) 19-34 (Jan 1999), 6A151
Vibration of a mistuned bladed-disk assembly using structurally damped beams, AIAA J **36**(12) 2225-2228 (Dec 1998), 6A174
Transverse mode localization in a dual-span rotating shaft, J Sound Vib **219**(1) 133-155 (Jan 1999), 6A179
Vibration characteristics for piezoelectric cylinders using amplitude-fluctuation electronic speckle pattern interferometry, AIAA J **36**(12) 2262-2268 (Dec 1998), 6A180
Vibration control of a flexible structure using ER dampers, J Dyn Syst Meas Control **121**(1) 134-138 (Mar 1999), 6A412
Modal parameter evaluation of degraded adhesively bonded composite beams, Composite Struct **43**(1) 79-91 (Sep 1998), 6A626
Finite Element analysis of an elastic beam structure subjected to a moving distributed mass train, Mech Syst Signal Processing **13**(1) 31-51 (Jan 1999), 7A13
General algorithm for the study of the dynamical behavior of beams, Appl Acoust **57**(4) 345-356 (Aug 1999), 7A82
Development of approximate methods for the analysis of patch damping design concepts, J Sound Vib **219**(5) 785-812 (Feb 1999), 7A123
Consistent co-rotational FE formulation for geometrically nonlinear dynamic analysis of 3D beams, Comput Methods Appl Mech Eng **169**(1-2) 1-18 (Jan 1999), 7A132
Effects of local preload on the foundation stiffness and vertical vibration of railway track, J Sound Vib **219**(5) 881-904 (Feb 1999), 7A133
Eigenfrequencies of tapered beams with intermediate point supports, Int J Space Struct **13**(2) 87-95 (1998), 7A134
Finite element vibration analysis of composite beams based on higher-order beam theory, J Sound Vib **219**(4) 707-721 (Jan 1999), 7A135
Free out-of-plane vibrations of a rotating beam with nonlinear elastomeric constraints, J Sound Vib **220**(1) 1-25 (Feb 1999), 7A136
Identifying nodes and anti-nodes of a longitudinally vibrating rod restrained by a linear spring in-span, J Sound Vib **219**(3) 550-557 (Jan 1999), 7T137
Nonlinear dynamics of flexible beams in planar motion: Formulation and time-stepping scheme for stiff problems, Comput Struct **70**(1) 1-22 (Jan 1999), 7A138
Nonlinear vibration analysis of a beam with dry friction at the supports, Mech Res Commun **26**(1) 83-89 (Jan-Feb 1999), 7T139
Parametrically excited nonlinear traveling beams with and without external forcing, Nonlinear Dyn **17**(4) 301-324 (Dec 1998), 7A140
Transverse vibration of a uniform circular thick beam with non-classical boundary conditions, J Sound Vib **220**(1) 186-191 (Feb 1999), 7T141
Vibration and stability of a beam with elastic supports and concentrated masses under conservative and nonconservative forces, Comput Struct **70**(3) 305-313 (Feb 1999), 7A142
Vibration frequencies for a beam with a rotational restraint in an adjustable position, Appl Acoust **57**(3) 197-202 (Jul 1999), 7A143
Dynamic analysis of multistep piles on Pasternak soil subjected to axial tip forces, J Sound Vib **219**(5) 771-783 (Feb 1999), 7A171
Imposing nodes to the normal modes of a linear elastic structure, J Sound Vib **219**(4) 669-687 (Jan 1999), 7A174
Novel approach to determine the frequency equations of combined dynamical systems, J Sound Vib **219**(4) 689-706 (Jan 1999), 7A175
Passive Vibration Control (Wiley, New York, 1999) 8R6
Vibration of Solids and Structures under Moving Loads (Telford, UK, 1999) 8R7
Spring's effective mass in spring mass system free vibration, J Sound Vib **220**(3) 564-570 (Feb 1999), 8T108
Optimal vibration feedback control of an Euler-Bernoulli beam: Toward realization of the active sink method, J Vib Acoust **121**(2) 174-182 (Apr 1999), 8A116
Analysis of torsional vibration systems by the extended transfer matrix method, J Vib Acoust **121**(2) 250-255 (Apr 1999), 8A125
Applications of dual MRM for determining the natural frequencies and natural modes of an Euler-Bernoulli beam using the singular value decomposition method, Eng Anal Boundary Elements **23**(4) 338-360 (Apr 1999), 8A126
Existence of a non-vibratory mode shape for free-free straight beams under compressive loads, J Sound Vib **220**(5) 948-953 (Mar 1999), 8T127
Free vibration analysis of shafts on resilient bearings using Timoshenko beam theory, J Vib Acoust **121**(2) 256-258 (Apr 1999), 8A128
New approach for determining the natural frequencies and mode shapes of a uniform beam carrying any number of sprung masses, J Sound Vib **220**(3) 451-468 (Feb 1999), 8A129
New dynamic FE formulation for lateral free vibrations of Euler-Bernoulli spinning beams using trigonometric shape functions, J Sound Vib **220**(4) 601-624 (Mar 1999), 8A130
Passing through the elastic wave barrier by a load moving uniformly along a smoothly inhomogeneous elastic system, Z Angew Math Mech **79**(3) 179-183 (1999), 8A131
Simulation of the dynamic behavior of single and multi-stage geared systems with shape deviations and mounting errors by using a spectral method, J Sound Vib **220**(5) 861-903 (Mar 1999), 8A132
Wave analysis of mode localization and delocalization in elastically constrained strings and beams, J Vib Acoust **121**(2) 169-173 (Apr 1999), 8A133
Mode localization of a cracked blade disk, J Eng Gas Turbines Power **121**(2) 335-341 (Apr 1999), 8A166
Dual dynamic absorber for the torsional vibrations of synchronous motor-driven compressors, J Sound Vib **220**(4) 729-748 (Mar 1999), 8A189
Railway noise: Use of the Timoshenko model in rail vibration studies, Acustica **85**(1) 54-62 (Jan-Feb 1999), 8A333
Experimental nonlinear identification of a single mode of a transversely excited beam, Nonlinear Dyn **18**(1) 69-87 (Jan 1999), 8T362
Experiment on chaotic oscillations of a post-buckled reinforced beam constrained by an axial spring, JSME Int J Ser C **41**(3) 563-569 (Sep 1998), 9A98
Destabilizating effects of rate feedback on strain actuated beams, J Sound Vib **221**(2) 289-307 (Mar 1999), 9A120
Dynamic response and stress analysis of multi-supported elastic beam by use of WPA method, J Huazhong Univ Sci Tech **27**(1) 69-71 (Jan 1999), 9A129
Dynamics of a slender beam with an attached mass under combination parametric and internal resonances - Part I: Steady state response, J Sound Vib **221**(5) 823-848 (Apr 1999), 9A130
Eigenvalue sensitivity of cracked beam structures, Adv in Struct Eng **2**(3) 199-205 (May 1999), 9A131
Experimental and theoretical correlation of helicopter rotor blade-droop stop impacts, J Aircraft **36**(2) 443-450 (Mar-Apr 1999), 9A132
Forced vibrations of elastic bending-torsion coupled beams, J Sound Vib **221**(2) 273-287 (Mar 1999), 9A133
Free vibration solution for uniform beams of nonsymmetrical cross section using Mathematica, Comput Struct **71**(1) 1-8 (Apr 1999), 9A134
Method of analysis of free and forced vibration of continuous systems with quadratic nonlinearity, Machine Dyn Prob **22** 77-94 (1998), 9A135
Mixed FEM for the quasi-static and dynamic analysis of viscoelastic Timoshenko beams, Int J Numer Methods Eng **44**(12) 1909-1932 (Apr 1999), 9A136
Mobility of a semi-infinite beam with constant curvature, J Sound Vib **221**(5) 887-902 (Apr 1999), 9A137
Nonlinear analysis of a parametrically excited cantilever beam: Effect of the tip mass on stationary response, JSME Int J Ser C **41**(3) 555-562 (Sep 1998), 9A138
Nonlinear vibration of a traveling beam, Int J Non-Linear Mech **34**(4) 655-670 (Jul 1999), 9A139
Nonlinear vibrations of a beam-mass system with both ends clamped, J Sound Vib **221**(3) 491-503 (Apr 1999), 9A140
Novel numerical method for evaluating the natural vibration frequency of a bending bar considering rotary inertia and shear effect, J Sound Vib **221**(2) 325-333 (Mar 1999), 9T141
Robust vibration control of a cantilever beam using self-sensing actuator, JSME Int J Ser C **40**(4) 681-687 (Dec 1997), 9A142
Spectrum and stability for elastic systems with global or local Kelvin-Voigt damping, SIAM J Appl Math **59**(2) 651-668 (Nov 1998), 9A143
Supercritical speed stability of the trivial equilibrium of an axially-moving string on an elastic foundation, J Sound Vib **221**(2) 205-219 (Mar 1999), 9A144
Vortex-induced vibrations of an elastic circular cylinder, J Fluids Struct **13**(2) 165-189 (Feb 1999), 9T145
Investigation of nonlinear models for a cylinder row in a cross flow, J Pressure Vessel Tech **121**(2) 133-141 (May 1999), 9A282
Experimental identification technique of nonlinear beams in time domain, Nonlinear Dyn **18**(2) 185-202 (Feb 1999), 9A424
Configuration dependent eigenfrequencies for a two-link flexible manipulator: Experimental verification, J Sound Vib **222**(2) 191-207 (Apr 1999), 10A117
Damping behavior of cantilevered structronic systems with boundary control, J Vib Acoust **121**(3) 402-407 (Jul 1999), 10A148
Comparison of the in-plane natural frequencies of symmetric cross-ply laminate beams based on the Bernoulli-Euler and Timoshenko beam theories, J Appl Mech **66**(2) 410-417 (Jun 1999), 10A154
Control of flexural waves on a beam using a tunable vibration neutralizer, J Sound Vib **222**(3) 389-407 (May 1999), 10A155
Dynamics of a slender beam with an attached mass under combination parametric and internal resonances - Part II: Periodic and chaotic responses, J Sound Vib **222**(2) 281-305 (Apr 1999), 10A156
Finite element formulation for non-smooth oscillations of an elastic beam with a friction device, Comput Methods Appl Mech Eng **173**(1-2) 21-29 (Apr 1999), 10A157
Galerkin element method applied to the vibration of damped sandwich beams, Comput Struct **71**(3) 239-256 (May 1999), 10A158
Monitoring of structural systems by using frequency data, Earthquake Eng Struct Dyn **28**(5) 447-461 (May 1999), 10A159
Natural frequencies of a beam with an arbitrary number of cracks, J Sound Vib **222**(3) 409-423 (May 1999), 10A160

Non-stationary problems in dynamics of a string on an elastic foundation subjected to a moving load, J Sound Vib **222**(3) 345-361 (May 1999), 10A161
Optimal selection of interior points for applying discretized boundary conditions in DQ vibration analysis of beams and plates, J Sound Vib **222**(2) 239-257 (Apr 1999), 10A162
Theoretical analysis, numerical calculation and experimental measurement of transient elastic waves in strips subjected to dynamic loadings, Int J Solids Struct **36**(23) 3541-3564 (Aug 1999), 10A163
Theoretical prediction of increase of natural frequency to ferromagnetic plates under in-plane magnetic fields, J Sound Vib **222**(1) 49-64 (Apr 1999), 10A164
Vibration and stability of non-uniform cracked Timoshenko beam subjected to follower force, Comput Struct **71**(5) 585-591 (Jun 1999), 10A165
Vibrations and stability of columns subjected to a certain type of generalized load, J Theor Appl Mech **37**(2) 283-299 (1999), 10A166
Vibrations of beams prestressed by internal frictionless cables, J Sound Vib **222**(1) 1-18 (Apr 1999), 10A167
Dynamic behavior of geared rotors, J Eng Gas Turbines Power **121**(3) 494-503 (Jul 1999), 10A201
Free vibration of axially loaded, rotating Timoshenko shaft systems by the wave-train closure principle, Int J Solids Struct **36**(26) 4031-4049 (Sep 1999), 10A203
Strain-based rotational mode measurement in a beam, J Sound Vib **222**(2) 225-237 (Apr 1999), 10A215
Pre-resonant and resonant elastic vibrations of spiral tubes interacting with internal mobile liquid clots (Russian), Prikl Mekh (Appl Mech) **35**(1) 85-91 (1999), 10A311
Modeling of a flexible beam with piezoelectric plates for active vibration control, J Sound Vib **223**(3) 483-492 (Jun 1999), 11T177
Natural frequency and mode shape sensitivities of damped systems - Part II: Multiple natural frequencies, J Sound Vib **223**(3) 413-424 (Jun 1999), 11A179
Applications of dual MRM for determining the natural frequencies and natural modes of a rod using the singular value decomposition method, Adv Eng Software **30**(7) 459-468 (Jul 1999), 11A188
Coupled bending torsional vibration of rotors using FE, J Sound Vib **223**(2) 297-316 (Jun 1999), 11A189
Dynamic deflection of beam due to moving mass, J Struct Eng (India) **25**(2) 117-122 (Jul 1998), 11A190
Dynamics of thermally activated shape memory alloy reinforced laminated beams, J Theor Appl Mech **36**(4) 879-893 (1998), 11A191
Influence of shear deformation and rotary inertia on nonlinear free vibration of a beam with pinned ends, Comput Struct **71**(6) 663-670 (Jun 1999), 11A192
Multi-mode beam theory with constrained cross-sectional warping, J Theor Appl Mech **36**(4) 1021-1042 (1998), 11A193
Nonlinear discrete-continuous models in the analysis of low structures subject to kinematic excitations caused by transversal waves, J Theor Appl Mech **36**(4) 979-999 (1998), 11A194
Nonlinear vibrations of a beam on an elastic foundation, J Sound Vib **223**(3) 335-354 (Jun 1999), 11A195
Particular recension on torsional vibrations of beams of thin-walled open sections, J Sound Vib **223**(1) 157-160 (May 1999), 11T196
Restrained torsional vibrations of stepped closed thin-walled bars (Chinese), Chinese J Comput Mech **16**(2) 169-174 (May 1999), 11T197
Transverse vibrations of a flexible beam sliding through a prismatic joint, J Sound Vib **223**(3) 467-482 (Jun 1999), 11A198
Effective control of torsional vibrations in drilling systems, J Sound Vib **224**(1) 101-122 (Jul 1999), 12A125
Partial and segmented modal sensors for beam structures, J Vib and Control **5**(4) 619-637 (Jul 1999), 12A128
Single-mode control of a cantilever beam under principal parametric excitation, J Sound Vib **224**(1) 33-47 (Jul 1999), 12A130
Alternative formulations of the characteristic equation of a Bernoulli-Euler beam to which several viscously damped spring-mass systems are attached in-span, J Sound Vib **223**(4) 666-677 (Jun 1999), 12T131
Asymptotic study of the linear vibrations of a stretched beam with concentrated masses and discrete elastic supports, J Sound Vib **223**(5) 679-691 (Jun 1999), 12A132
Criteria for chaotic transient oscillations in a model of driven buckled beams, Comput Assisted Mech Eng Sci **6**(1) 63-82 (1999), 12A133
Dynamic response of a rotating beam subjected to a random moving load, J Sound Vib **223**(5) 741-758 (Jun 1999), 12A134
Dynamics of a flexible beam and a system of rigid rods, with fully inverse (one sided) boundary conditions, Comput Methods Appl Mech Eng **175**(1-2) 87-97 (Jun 1999), 12A135
Eigenvalues of a uniform cantilever beam carrying any number of spring-damper-mass systems, Int J Numer Methods Eng **45**(9) 1277-1295 (Jul 1999), 12A136
Modeling of transverse vibration of beam of linearly variable depth with edge crack, Eng Fracture Mech **63**(4) 425-445 (Jul 1999), 12A137
Nonlinear strain measures, shape functions, and beam elements for dynamics of flexible beams, Multibody Syst Dyn **3**(2) 189-205 (May 1999), 12A138
Robust control of two-link flexible manipulators using the μ-synthesis technique, J Vib and Control **5**(4) 559-576 (Jul 1999), 12A139
Sliding mode control of an impacting elastic element using inverse model, J Low Frequency Noise Vib **18**(1) 21-38 (1999), 12A140
Analysis of the nonlinear vibration characteristics of a belt-driven system, J Sound Vib **223**(5) 723-740 (Jun 1999), 12A141
Integrated model for drill-string dynamics, J Sound Vib **224**(1) 123-165 (Jul 1999), 12A142
Analysis of the friction-induced self-excited vibration of a contact-recording head slider supported by a cantilever beam, J Info Storage Processing Syst **1**(1) 59-65 (Jan 1999), 12A458
Dynamic contact sensing by flexible beam, IEEE/ASME Trans Mechatronics **3**(4) 254-264 (Dec 1998), 12A466
Evaluation of wood poles using a free vibration technique, J Test Eval **27**(3) 191-195 (May 1999), 12A859
Application of smart-structure technology to rotor blade tip vibration control, J Vib and Control **5**(4) 639-658 (Jul 1999), 12A902

154C. Strings, cables, chains, and ropes

Elastic field generated by two loads moving along two strings on an elastically supported membrane, J Sound Vib **214**(4) 725-746 (Jul 1998), 1A147
Mitigation of 3D vibration of inclined sag cable using discrete oil dampers - I: Formulation, J Sound Vib **214**(4) 659-673 (Jul 1998), 1A148
Mitigation of 3D vibration of inclined sag cable using discrete oil dampers - II: Application, J Sound Vib **214**(4) 675-693 (Jul 1998), 1A149
Nonlinear galloping of sagged cables in 1:2 internal resonance, J Sound Vib **214**(5) 915-940 (Jul 1998), 1A150
Suppression of vibration in the axially moving Kirchhoff string by boundary control, J Sound Vib **214**(3) 567-575 (Jul 1998), 1T151
Hybrid method for estimating modal damping in sag cable with oil damper, Adv in Struct Eng **1**(4) 221-236 (Jul 1998), 2A172
Transition behavior from string to beam for an axially accelerating material, J Sound Vib **215**(3) 571-576 (Aug 1998), 2T205
Coupled torsional and bending vibrations of drill-strings subject to impact with friction, J Sound Vib **215**(1) 167-181 (Aug 1998), 2A209
Discrete modeling of a string and analysis of a loop soliton, J Appl Mech **65**(3) 737-747 (Sep 1998), 2A210
Dynamic behavior of cable supporting roller batteries: Basic model, Comput Struct **69**(1) 95-104 (Oct 1998), 2A211
Lateral vibration instability mechanisms in a constrained rotating string, J Appl Mech **65**(3) 774-776 (Sep 1998), 2T212
Optimum stepped-pipe string with vibration absorbers for mining manganese nodules, to reduce its maximum axial stress, J Vib Acoust **120**(4) 917-921 (Oct 1998), 2A213
Adaptive vibration control of an axially moving string, J Vib Acoust **121**(1) 41-49 (Jan 1999), 4A151
Stability analysis of a circularly towed cable-body system, J Sound Vib **217**(3) 435-452 (Oct 1998), 4A152
Active control of shallow, slack cable using the parametric control of end tension, Nonlinear Dyn **17**(1) 77-94 (Sep 1998), 4T434
Adaptive boundary control of out-of-plane cable vibration, J Appl Mech **65**(4) 963-969 (Dec 1998), 5A127
Asymptotic blow-up time of classical solutions for general quasilinear hyperbolic systems and its applications, Int J Non-Linear Mech **34**(3) 545-569 (May 1999), 5A128
Free and forced vibration of an axially moving string with an arbitrary velocity profile, J Appl Mech **65**(4) 901-907 (Dec 1998), 5A129
Eigenfrequencies of a two-mass oscillator uniformly moving along a string on a viscoelastic foundation, J Sound Vib **218**(1) 103-116 (Nov 1998), 5A154
Boundary control of an axially moving string via Lyapunov method, J Dyn Syst Meas Control **121**(1) 105-110 (Mar 1999), 6A152
Nonlinear vibration analysis of a traveling string with time-dependent length by new hybrid Laplace transform-FEM, J Sound Vib **219**(2) 323-337 (Jan 1999), 6A153
Stabilization of an axially moving string by nonlinear boundary feedback, J Dyn Syst Meas Control **121**(1) 117-126 (Mar 1999), 6A154
Study of vibrations of naturally twisted threads with loads in liquid (Russian), Prikl Mekh (Appl Mech) **34**(9) 90-97 (1998), 6A155
Stochastic excitation of suspended cables involving three simultaneous internal resonances using Monte Carlo simulation, Comput Methods Appl Mech Eng **168**(1-4) 285-304 (Jan 1999), 7A119
Dynamic stiffness of a railway overhead wire system and its effect on pantograph-catenary system dynamics, J Sound Vib **219**(3) 483-502 (Jan 1999), 7A144
Two new simple FEs for the static and dynamic analysis of composite plates, J Eng Appl Sci **45**(5) 741-757 (Oct 1998), 7A145
Vibration modes in a string of three branches, J Sound Vib **219**(5) 920-924 (Feb 1999), 7A146
Wave analysis of mode localization and delocalization in elastically constrained strings and beams, J Vib Acoust **121**(2) 169-173 (Apr 1999), 8A133
Dynamic stiffness of an axially moving string, J Sound Vib **220**(4) 749-756 (Mar 1999), 8A134
Fundamental frequency of a vibrating pretensionless string, J Sound Vib **221**(1) 169-174 (Mar 1999), 8T135
Group properties and group-invariant solutions for infinitesimal transformations of the nonlinearly traveling string, Int J Non-Linear Mech **34**(4) 693-698 (Jul 1999), 9T146
Boundary control of Kirchhoff's nonlinear string, Int J Control **72**(6) 560-563 (Apr 1999), 9A496
Dynamic curvature in catenary risers at the touch down point region: an experimental study and the analytical boundary-layer solution, Int J Offshore Polar Eng **8**(4) 303-310 (Dec 1998), 10A168
Free vibration of the system of two strings coupled by a viscoelastic interlayer, Eng Trans **46**(2) 217-227 (1998), 10A169
Modal analysis of serpentine belt drive systems, J Sound Vib **222**(2) 259-279 (Apr 1999), 10A170
Multiple resonances in suspended cables: Direct versus reduced-order models, Int J Non-Linear Mech **34**(5) 901-924 (Sep 1999), 10A171
Nonlinear vibration of parametrically excited moving belts - Part I: Dynamic response, J Appl Mech **66**(2) 396-402 (Jun 1999), 10A172
Nonlinear vibration of parametrically excited viscoelastic moving belts - Part II: Stability analysis, J Appl Mech **66**(2) 403-409 (Jun 1999), 10A173
Vibration considerations in foil-bearing design, J Appl Mech **66**(2) 432-438 (Jun 1999), 10A174
Study of vibrations of naturally twisted threads with loads in liquid (Russian), Prikl Mekh (Appl Mech) **34**(11) 104-109 (1998), 10A304
Exponentially stabilizing boundary control of string-mass systems, J Vib and Control **5**(3) 491-502 (May 1999), 11A175
Passive control of overhead cranes, J Vib and Control **5**(3) 443-459 (May 1999), 11A182
Analysis of the nonlinear vibration characteristics of a belt-driven system, J Sound Vib **223**(5) 723-740 (Jun 1999), 12A141
Integrated model for drill-string dynamics, J Sound Vib **224**(1) 123-165 (Jul 1999), 12A142
Vibration of a rotating heavy nonuniform thread and its stability, J Appl Math Mech **63**(1) 9-19 (1999), 12A143

154D. Rings

Changes in the natural frequencies of repeated mode pairs induced by cracks in a vibrating ring, J Sound Vib **214**(4) 761-770 (Jul 1998), 1A152
Planar-thickness oscillations of circular piezo-ceramic rings and discs (Russian), Prikl Mekh (Appl Mech) **33**(7) 72-78 (1997), 2A214
Solution of impact-induced flexural waves in a circular ring by the method of characteristics, J Appl Mech **65**(3) 569-579 (Sep 1998), 2A215
Vibration characteristics for piezoelectric cylinders using amplitude-fluctuation electronic speckle pattern interferometry, AIAA J **36**(12) 2262-2268 (Dec 1998), 6A180
In-plane vibration of thin rings with in-plane profile variations - Part I: General background and theoretical formulation, J Sound Vib **220**(3) 497-516 (Feb 1999), 8A136
In-plane vibration of thin rings with in-plane profile variations - Part II: Application to nominally circular rings, J Sound Vib **220**(3) 517-539 (Feb 1999), 8A137
Responses of near-optimal, continuous horizontally curved beams to transit loads, J Sound Vib **222**(4) 565-578 (May 1999), 10A175
Influence of lubrication on the dynamic behavior of ball bearings, J Sound Vib **222**(4) 579-596 (May 1999), 10A230
Out-of-plane vibration of multi-span curved beam due to moving loads, Struct Eng and Mech **7**(4) 361-375 (Apr 1999), 11A199

154E. Springs

Isolation vibration system of a curved spring for gravitational wave detectors (Chinese), J Huazhong Univ Sci Tech **26**(7) 13-15 (Jul 1998), 4A200
Efficient numerical method for predicting the natural frequencies of cylindrical helical springs, Int J Mech Sci **41**(8) 919-939 (Aug 1999), 7A147
Energy balance of two coupled oscillators subject to transient excitation, Strojnicky Casopis **50**(3) 156-167 (1999), 12A144

154F. Membranes

Elastic field generated by two loads moving along two strings on an elastically supported membrane, J Sound Vib **214**(4) 725-746 (Jul 1998), 1A147
Polygonal membrane with a circular core, J Sound Vib **215**(1) 195-199 (Aug 1998), 2T216
Dynamic analysis of single-anchor inflatable dams, J Sound Vib **215**(2) 251-272 (Aug 1998), 2A227
Fundamental frequencies of moon- and lens-shaped membranes, J Sound Vib **216**(4) 748-750 (Oct 1998), 3T152
Transverse vibrations of composite, circular annular membranes: Exact solution, J Sound Vib **216**(1) 190-193 (Sep 1998), 3T153
Antisymmetric modes of vibrations of composite, doubly-connected membranes, J Sound Vib **217**(1) 191-195 (Oct 1998), 4T153
Added mass of a membrane vibrating at finite amplitude, J Fluids Struct **12**(7) 919-932 (Oct 1998), 6A156
Peculiarities of projective approach use in the construction of applied theory of multilayer shells dynamics (Russian), Prikl Mekh (Appl Mech) **34**(7) 57-63 (1998), 6A677
Eigenvalues of the Laplacian on regular polygons and polygons resulting from their disection, J Sound Vib **220**(1) 83-98 (Feb 1999), 7A148
Fundamental modes of a circular membrane with radial constraints on the boundary, J Sound Vib **220**(3) 559-563 (Feb 1999), 8T138
Predicting the absorption of open weave textiles and micro-perforated membranes backed by an air space, J Sound Vib **220**(5) 905-920 (Mar 1999), 8A139
Vibration analysis of arbitrarily shaped membranes using non-dimensional dynamic influence function, J Sound Vib **221**(1) 117-132 (Mar 1999), 8A140
Selection of sensor locations for active vibration control of helicopter fuselages, J Aircraft **36**(2) 434-442 (Mar-Apr 1999), 9A147
Simplified method for evaluating fundamental natural frequency of shear wall with multiple bands of openings, J Sound Vib **221**(2) 334-341 (Mar 1999), 9T148
Transverse vibrations of elastically connected rectangular double-membrane compound system, J Sound Vib **221**(2) 235-250 (Mar 1999), 9A176
Comments on " On the polygonal membrane with a circular core", J Sound Vib **222**(2) 331-332 (Apr 1999), 10T176
Transverse vibrations of a rectangular membrane with discontinuously varying density, J Sound Vib **222**(2) 341-344 (Apr 1999), 10T177

154G. Plates

Vibration field correlation of randomly excited flat plate structures - I: Theory, J Sound Vib **214**(3) 443-467 (Jul 1998), 1A128
Vibration field correlation of randomly excited flat plate structures - II: Experimental verification, J Sound Vib **214**(3) 469-496 (Jul 1998), 1A129
Energy flow analysis of beams and plates for random distributed loading, J Fluids Struct **12**(3) 315-333 (Apr 1998), 1A141
Effect of cracks on the natural frequency of cantilevered plates: A Rayleigh-Ritz solution, Mech Struct Machines **26**(2) 131-143 (1998), 1A153
Free and forced vibration of single and coupled rectangular plates, J Acoust Soc Am **104**(1) 204-216 (Jul 1998), 1A154
Mutual impedance of two circular plates for high frequency wave radiation, Arch Acoust **22**(4) 463-471 (1997), 1A155
Nonlinear vibration of a hinged orthotropic circular plate with a concentric rigid mass, J Sound Vib **214**(5) 873-883 (Jul 1998), 1A156
Oscillations of nonlinear thin plates excited by piezoelectric patches, Z Angew Math Mech **78**(7) 495-503 (1998), 1A157
Vibration analysis of delaminated composites plates under axial load, Mech Struct Machines **26**(2) 195-218 (1998), 1A158
Distributed photostrictive actuation and opto-piezothermoelasticity applied to vibration control of plates, J Vib Acoust **120**(4) 937-943 (Oct 1998), 2A171
Asymmetric vibrations and elastic stability of polar orthotropic circular plates of linearly varying profile, J Sound Vib **215**(2) 231-250 (Aug 1998), 2A217
Dynamic response of initially loaded piezoelectric plates composed of short fibers, AIAA J **36**(8) 1502-1508 (Aug 1998), 2A218
Fundamental frequency of transverse vibration of a circular annular plate of rectangular orthotropy with an intermediate circular support, J Sound Vib **215**(2) 390-394 (Aug 1998), 2T219

Optimization of piezoceramic sensor-actuator placement for vibration control of laminated plates, AIAA J **36**(9) 1763-1765 (Sep 1998), 2T220
Representation theorems for the solutions of high-frequency harmonic oscillations in elastic plates, Appl Math Lett **11**(5) 55-59 (Sep 1998), 2A221
Theoretical and experimental investigation of a primary resonance of a three circular plates torsion vibration system, Appl Math Mech **19**(6) 539-546 (Jun 1998), 2A222
Thickness vibrations of rotating piezoelectric plates, J Acoust Soc Am **104**(3-PT1) 1427-1435 (Sep 1998), 2A223
Transient response of a composite plate with delamination, J Appl Mech **65**(3) 664-670 (Sep 1998), 2A224
Vibrations of orthotropic, rectangular plates of non-uniform thickness and two adjacent free edges, J Sound Vib **215**(1) 189-194 (Aug 1998), 2T225
Mechanical properties of thin films from the load deflection of long clamped plates, J Microelectromechanical Syst 7(3) 320-328 (Sep 1998), 2T544
Adaptive multigrid solver for plate vibration and buckling problems, Comput Struct **69**(5) 625-637 (Dec 1998), 3A154
Authors' reply, J Sound Vib **215**(5) 1182 (Sep 1998), 3T155
Comments on "A note on a FE for vibrating thin, orthotropic rectangular plates", J Sound Vib **216**(2) 315-320 (Sep 1998), 3T156
Comments on: Vibration analysis of circular Mindlin plates using the differential quadrature method, J Sound Vib **215**(5) 1181-1182 (Sep 1998), 3T157
Complex eigensolutions of rectangular plates with damping patches, J Sound Vib **216**(1) 1-28 (Sep 1998), 3A158
Free axisymmetric vibration of transversely isotropic laminated circular plates, Acta Mech Solida Sinica **11**(3) 209-215 (1998), 3A159
Free vibration analysis of rectangular plates with variable thickness, J Sound Vib **216**(3) 379-397 (Sep 1998), 3A160
Fundamental frequency of transverse vibrations of rectangularly orthotropic, circular, annular plates with several combinations of boundary conditions, J Sound Vib **216**(3) 543-551 (Sep 1998), 3A161
Interaction between a Timoshenko-Mindlin plate and an attached rib, J Acoust Soc Am **104**(4) 2213-2219 (Oct 1998), 3A162
New bending wave solution for the classical plate equation, J Acoust Soc Am **104**(4) 2220-2222 (Oct 1998), 3A163
Numerical experiments on transverse vibrations of a rectangular plate of generalized anisotropy with a free edge, J Sound Vib **216**(2) 342-346 (Sep 1998), 3T164
Range-dependent acoustic radiation from line-driven plates above the bending coincidence frequency, J Acoust Soc Am **104**(4) 2223-2226 (Oct 1998), 3A165
Recurrence scheme for the generation of 2D boundary characteristic orthogonal polynomials to study vibration of plates, J Sound Vib **216**(2) 321-327 (Sep 1998), 3T166
Transverse vibrations of circular plates of rectangular orthotropy carrying a central, concentrated mass, J Sound Vib **216**(2) 337-341 (Sep 1998), 3T167
Transverse vibrations of simply supported anisotropic rectangular plates carrying an elastically mounted concentrated mass, J Sound Vib **215**(5) 1195-1202 (Sep 1998), 3T168
Sound power minimization of circular plates through damping layer placement, J Sound Vib **215**(5) 1145-1163 (Sep 1998), 3A329
Analysis of subharmonic resonance of moderately thick antisymmetric angle-ply laminated plates by using method of multiple scales, J Sound Vib **217**(3) 467-484 (Oct 1998), 4A154
Application of Green's function in free vibration analysis of a system of line connected rectangular plates, J Sound Vib **217**(1) 1-15 (Oct 1998), 4A155
Eigenfrequencies of tapered rectangular plates with intermediate line supports, Int J Solids Struct **36**(1) 143-166 (Jan 1999), 4A156
Forced axisymmetric response of an annular plate of parabolically varying thickness, Int J Mech Sci **41**(1) 71-83 (Jan 1999), 4A157
Fundamental frequency of tapered plates by the method of eigensensitivity analysis, Ocean Eng **26**(6) 565-573 (Jun 1999), 4T158
Influence of corner stress singularities on the vibration characteristics of rhombic plates with combinations of simply supported and free edges, Int J Mech Sci **41**(1) 17-41 (Jan 1999), 4A159
Nonlinear oscillations of circular plates near a critical speed resonance, Int J Non-Linear Mech **34**(1) 139-157 (Jan 1999), 4A160
Study of the dynamic stress concentration factors of a flat plate for sea applications, J Sound Vib **217**(1) 97-111 (Oct 1998), 4A161
Treatment of mixed and nonuniform boundary conditions in GDQ vibration analysis of rectangular plates, Eng Struct **21**(2) 125-134 (Feb 1999), 4A162
Uniformizing method for the free vibration analysis of metal-piezoceramic composite thin plates, J Sound Vib **217**(2) 261-281 (Oct 1998), 4A163
Use of diagonal modes in the elastic identification of thin plates, J Vib Acoust **121**(1) 33-40 (Jan 1999), 4A164
Nonlinear dynamic response analysis of laminated composite cylindrical panels (Chinese), J Shanghai Jiaotong Univ **32**(7) 128-131 (Jul 1998), 4A180
Hydroelastic vibration of free-edge annular plates, J Vib Acoust **121**(1) 26-32 (Jan 1999), 4A259
Contribution of radiation and viscous loss in a fluid loaded flexural plate wave sensor, J Sound Vib **217**(1) 113-126 (Oct 1998), 4A426
Finite element static and dynamic analyses of folded plates, Eng Struct **21**(3) 277-287 (Mar 1999), 5A24
Asymmetric, speed dependent tensioning of circular rotating disks, J Sound Vib **218**(1) 65-80 (Nov 1998), 5A130
Author's reply, J Sound Vib **218**(2) 342-343 (Nov 1998), 5T131
Comments on "The response of and sound power radiated by a clamped rectangular plate", J Sound Vib **218**(2) 341-342 (Nov 1998), 5T132
Three-dimensional vibrations of thick, linearly tapered, annular plates, J Sound Vib **217**(5) 927-944 (Nov 1998), 5A133
Use of genetic algorithms for the vibroacoustic optimization of a plate carrying point-masses, J Acoust Soc Am **104**(6) 3385-3397 (Dec 1998), 5A134
Vibrations of orthotropic, circular annular plates of non-uniform thickness and a free inner edge, J Sound Vib **218**(1) 159-163 (Nov 1998), 5T135
Layer-wide mixed models for accurate vibrations analysis of multilayered plates, J Appl Mech **65**(4) 820-828 (Dec 1998), 5A153
Vibration of plates and shells using FEs: 1996-1997, Finite Elements Anal Des **31**(3) 223-230 (Jan 1999), 6A21
Optimal control of laminated plate with piezoelectric sensor and actuator layers, AIAA J **36**(12) 2204-2208 (Dec 1998), 6A133
Accurate free vibration analysis of point supported Mindlin plates by the superposition method, J Sound Vib **219**(2) 265-277 (Jan 1999), 6A157
Forced response of a semi-infinite plate of parabolically varying thickness, J Sound Vib **219**(2) 255-264 (Jan 1999), 6A158
Free vibration of a piezoelectric composite rectangular plate, J Sound Vib **218**(4) 741-748 (Dec 1998), 6T159
Identification of the impact location on a plate using wavelets, Mech Syst Signal Processing **12**(6) 783-795 (Nov 1998), 6A160
Static and free vibrational analysis of rectangular plates by the differential quadrature element method, Commun Numer Methods Eng **14**(12) 1133-1141 (Dec 1998), 6A161
Theory of vibrations of three-layered plates (Russian), Prikl Mekh (Appl Mech) **34**(9) 69-75 (1998), 6A162
Free vibration of thick generally laminated quadrilateral plates having arbitrarily located point supports, J Aircraft **35**(6) 958-965 (Nov-Dec 1998), 6A172
Dynamic FE model improvement of a PCB structure, J Vib and Control **5**(1) 57-74 (Jan 1999), 6A209
Control of sound transmission through thin plate, J Sound Vib **218**(4) 605-618 (Dec 1998), 6A311
Dynamics of Plates (Marcel Dekker, New York, 1998) 7R6
Approach for evaluating power transfer coefficient for spot-welded joints in an energy FE formulation, J Sound Vib **220**(1) 135-154 (Feb 1999), 7A38
Acoustic radiation from a rectangular plate reinforced by springs at arbitrary locations, J Sound Vib **220**(1) 117-133 (Feb 1999), 7A149
Decay rates of solutions to a von Karman system for viscoelastic plates with memory, Quart Appl Math **57**(1) 181-200 (Mar 1999), 7A150
Forced vibrations of simply supported anisotropic rectangular plates, J Sound Vib **220**(1) 178-185 (Feb 1999), 7T151
Free vibration of cantilevered symmetrically laminated thick trapezoidal plates, Int J Mech Sci **41**(6) 685-702 (Jun 1999), 7A152
Optimal design of internal ring supports for vibrating circular plates, J Sound Vib **219**(3) 525-537 (Jan 1999), 7A153
Simple approach to investigate vibratory behavior of thermally stressed laminated structures, J Sound Vib **219**(4) 603-618 (Jan 1999), 7A154
Thickness-shear and flexural vibrations of linearly contoured crystal strips with multiprecision computation, Comput Struct **70**(4) 437-445 (Feb 1999), 7A155
Effect of an air-back cavity on the sound field reflected by a vibrating plate, Appl Acoust **56**(4) 241-256 (Apr 1999), 7A294
Active control of sound radiation from a rectangular plate excited by a line moment, J Sound Vib **220**(1) 99-115 (Feb 1999), 7A306
Active control of sound radiation from rectangular plates using multiple piezoelectric actuators, Appl Acoust **57**(4) 327-343 (Aug 1999), 7A307
Radiation damping in plates induced by porous media, J Sound Vib **221**(1) 143-167 (Mar 1999), 8A111
Vibration control simulation of laminated composite plates with integrated piezoelectrics, J Sound Vib **220**(5) 827-846 (Mar 1999), 8A123
Analysis of dynamic reverse force on annular plates (Chinese), J Huazhong Univ Sci Tech **26**(12) 49-51 (Dec 1998), 8A141
Analytical and numerical experiments on vibrating circular annular plates of rectangular orthotropy, J Sound Vib **220**(5) 941-947 (Mar 1999), 8T142
Asymptotic-numerical method for large-amplitude free vibrations of thin elastic plates, J Sound Vib **220**(4) 695-727 (Mar 1999), 8A143
Boundary conditioning technique for structural tuning, J Sound Vib **220**(5) 847-859 (Mar 1999), 8A144
Dynamics of delaminated composite plates with piezoelectric actuators, AIAA J **37**(2) 248-254 (Feb 1999), 8A145
Forced asymmetric response of linearly tapered circular plates, J Sound Vib **220**(4) 641-657 (Mar 1999), 8A146
Free vibration analysis of elliptic and circular plates having rectangular orthotropy, Struct Eng and Mech **7**(1) 53-67 (Jan 1999), 8A147
Fundamental frequency of transverse vibration of a clamped rectangular plate of cylindrical orthotropy, J Sound Vib **220**(3) 571-575 (Feb 1999), 8T148
Fundamental frequency of transverse vibration of orthotropic plates of regular polygonal shape carrying a concentrated mass, J Sound Vib **221**(1) 175-179 (Mar 1999), 8T149
Hybrid control of vibration of thin plate with active constrained damping layer, Appl Math Mech **19**(12) 1119-1134 (Dec 1998), 8A150
Natural frequencies of transverse vibrations of non-uniform circular and annular plates, J Sound Vib **220**(2) 225-249 (Feb 1999), 8A151
Three-dimensional vibration analysis of rectangular plates based on differential quadrature method, J Sound Vib **220**(4) 577-599 (Mar 1999), 8A152
Use of the differential quadrature method when dealing with transverse vibrations of a rectangular plate subjected to a nonuniform stress distribution field, J Sound Vib **220**(4) 765-769 (Mar 1999), 8T153
Vibration analysis of discontinuous Mindlin plates by differential quadrature element method, J Vib Acoust **121**(2) 204-208 (Apr 1999), 8A154
Experimental investigation of the damping of structural vibrations by vorticity production, J Sound Vib **220**(2) 297-312 (Feb 1999), 8A196
Development of mathematical model of a plate for active vibration suppression, J Vib and Control **5**(2) 175-194 (Mar 1999), 8A423
Buckling and vibrations of unsymmetric laminates resting on elastic foundations under in-plane and shear forces, Composite Struct **44**(1) 31-41 (Jan 1999), 8A665
Finite element analysis of the piezoelectric vibrations of quartz plate resonators with higher-order plate theory, Int J Solids Struct **36**(15) 2303-2319 (May 1999), 8A674
Vibration of Mindlin Plates: Programming the p-Version Ritz Method (Elsevier, Oxford, UK, 1998) 9R10
Controlling the attitude maneuvers of flexible spacecraft by using time-optimal and fuel-efficient shaped inputs, J Sound Vib **221**(4) 545-565 (Apr 1999), 9A88
Analytical and experimental investigation on vibrating membranes with a central point support, J Sound Vib **221**(5) 917-922 (Apr 1999), 9A149
Axisymmetric free vibration of thick annular plates, Int J Mech Sci **41**(9) 1089-1109 (Sep 1999), 9A150
Comparison of BEMs and FEMs for dynamic analysis of elastoplastic plates, Adv Eng Software **30**(5) 353-360 (May 1999), 9A151
Damped vibration of composite plates with passive piezoelectric-resistor elements, J Sound Vib **221**(5) 867-885 (Apr 1999), 9A152
Dynamics and robust control of a high speed optical pickup, J Sound Vib **221**(4) 607-621 (Apr 1999), 9A153
Effect of edge and internal point support of a printed circuit board under vibration, J Electron Packaging **121**(2) 122-126 (Jun 1999), 9A154
Free vibration analysis of cantilevered laminated trapezoidal plates, Sci Eng Comp Mat **8**(1) 1-9 (1999), 9A155
Free vibration of laminated composite plates without cutout, J Sound Vib **221**(3) 443-470 (Apr 1999), 9A156
Internal resonance of rectangular laminated plates with degenerate modes, JSME Int J Ser C **41**(4) 718-726 (Dec 1998), 9A157
Modal characteristics of a flexible smart plate filled with electrorheological fluids, J Aircraft **36**(2) 458-464 (Mar-Apr 1999), 9A158
Modal characteristics of a flexible smart plate filled with electrorheological fluids, J Aircraft **36**(2) 458-464 (Mar-Apr 1999), 9T159
Nonlinear forced vibration analysis of the rectangular plates by the Fourier series method, Comput Mech **23**(1) 1-7 (Feb 1999), 9A160
Numerical experiments on vibrating circular plates of rectangular orthotropy and carrying a central, concentrated mass, J Sound Vib **221**(4) 737-749 (Apr 1999), 9T161
Simulation of non-selfadjoint control of thin elastic plates in the presence of conservative in-plane forces, Arch Appl Mech **69**(1) 1-13 (Feb 1999), 9A162
Three-mode response of simply supported, rectangular laminated plates, JSME Int J Ser C **41**(1) 51-59 (Mar 1998), 9A163
Transverse vibrations of a circular plate of rectangular orthotropy with a concentric circular support and carrying a concentrated mass, J Sound Vib **221**(3) 537-544 (Apr 1999), 9T164
Transverse vibrations of simply supported orthotropic rectangular plates with rectangular and circular cutouts carrying an elastically mounted concentrated mass, Struct Eng and Mech **7**(5) 503-512 (May 1999), 9A165
Transverse vibrations of thin, orthotropic rectangular plates with rectangular cutouts with fixed boundaries, J Sound Vib **221**(4) 733-736 (Apr 1999), 9T166
Vibration analysis of rectangular and skew plates by the Rayleigh-Ritz method, J Sound Vib **221**(2) 342-349 (Mar 1999), 9T167
Dynamic response of a stiffened laminated composite plate subjected to blast load, J Sound Vib **221**(3) 371-389 (Apr 1999), 9A315
Influence of thickness defects on the acoustical radiation of plates (French), Acustica **85**(2) 213-220 (Mar-Apr 1999), 9A318
Mechanical behavior and sound generation efficiency of prestressed, elastically clamped and thermomechanically driven thin film sandwiches, J Micromech Microeng **9**(1) 19-29 (Mar 1999), 9T489
Free vibrations of rectangular composite plates with point-supports using static beam functions, Composite Struct **44**(2-3) 145-154 (Feb-Mar 1999), 9A648
Buckling and free vibration of non-homogeneous composite cross-ply laminated plates with various plate theories, Composite Struct **44**(4) 279-287 (Apr 1999), 9A709
Optimal selection of interior points for applying discretized boundary conditions in DQ vibration analysis of beams and plates, J Sound Vib **222**(2) 239-257 (Apr 1999), 10A162
Analysis of vibrating rectangular anisotropic plates with free-edge holes, J Sound Vib **222**(4) 691-695 (May 1999), 10T178
Analytical solution of a mixed boundary value problem for rectangular plates, Appl Mech Eng **3**(3) 517-530 (1998), 10A179
Application of Maple V to the nonlinear vibration analysis of circular plate with variable thickness, Comput Struct **71**(5) 481-488 (Jun 1999), 10A180
Determination of natural frequencies of nonhomogeneous plates fluctuations (Russian), Prikl Mekh (Appl Mech) **35**(2) 47-53 (1999), 10T181
Finite element based modal method for determination of plate stiffnesses considering uncertainties, J Composite Mat **33**(8) 695-711 (1999), 10A182
Free vibrations of thin periodic plates, Eng Trans **46**(1) 89-114 (1998), 10T183
Note on transverse vibrations of composite, circular membranes with a central, point support, J Sound Vib **222**(4) 696-698 (May 1999), 10T184
Oscillations of the ribbed plates on the elastic base (Russian), Prikl Mekh (Appl Mech) **35**(1) 69-73 (1999), 10A185
Transverse vibration of a rectangularly orthotropic spinning disk - Part I: Formulation and free vibration, J Vib Acoust **121**(3) 273-279 (Jul 1999), 10A186
Transverse vibration of a rectangularly orthotropic spinning disk - Part 2: Forced vibration and critical speeds, J Vib Acoust **121**(3) 280-285 (Jul 1999), 10A187
Investigate WVA for controlling bending vibration in steel plate by SEA (Chinese), J Huazhong Univ Sci Tech **27**(2) 19-21 (Feb 1999), 10A239
Study on controllability and observability for thin plate system with parameter uncertainty, Chinese J Mech Eng **11**(3) 223-230 (Sep 1998), 10A381
Comments on "Optimal support positions for a structure to maximize its fundamental natural frequency", J Sound Vib **222**(5) 853-856 (May 1999), 11T161
Natural frequency and mode shape sensitivities of damped systems - Part I: Distinct natural frequencies, J Sound Vib **223**(3) 399-412 (Jun 1999), 11A178
Free axisymmetric vibration of transversely isotropic piezoelectric circular plates, Int J Solids Struct **36**(30) 4629-4652 (Oct 1999), 11A200
Free vibration of line supported rectangular plates using a set of static beam functions, J Sound Vib **223**(2) 231-245 (Jun 1999), 11A201
Fundamental frequency of transverse vibration of simply supported and clamped regular polygonal plates with a central, pinpoint support, J Sound Vib **223**(2) 326-328 (Jun 1999), 11T202
Nonlinear vibration of Mindlin plate subjected to moving forces including the effect of weight of the plate, Struct Eng and Mech **8**(2) 151-164 (Aug 1999), 11A203
Transverse vibrations of an annular circular plate with free edges and an intermediate concentric circular support, J Sound Vib **223**(3) 493-496 (Jun 1999), 11T204

Vibrations of plates under periodically distributed inertial loadings, J Theor Appl Mech **36**(4) 1001-1020 (1998), 11A205
Parametric effects of plates with CLD treatment on vibration suppression, J Chinese Soc Mech Eng **20**(2) 159-167 (Apr 1999), 11A227
Fully symbolic model of multibody systems containing flexible plates, Nonlinear Dyn **18**(4) 357-382 (Apr 1999), 12A105
Analysis of acousto-ultrasonic characteristics for an isotropic thin plate, J Acoust Soc Am **105**(6) 3318-3325 (Jun 1999), 12A145
Dynamics experimental and analysis of a hard disk drive, J Vib and Control **5**(4) 535-557 (Jul 1999), 12A146
Free vibrations of tapered rectangular plates using a new set of beam functions with the Rayleigh-Ritz method, J Sound Vib **223**(5) 703-722 (Jun 1999), 12A147
Modal characteristics of in-plane vibration of rectangular plates, J Acoust Soc Am **105**(6) 3295-3310 (Jun 1999), 12A148
Three-dimensional elasticity solutions for free vibrations of circular plates: A polynomials-Ritz analysis, Comput Methods Appl Mech Eng **175**(1-2) 189-201 (Jun 1999), 12A149
Transverse vibrations of a circular plate with a free edge and a concentric circular support, J Sound Vib **223**(5) 842-845 (Jun 1999), 12T150
Vibrations of continuous, rectangular plates in the case of oblique intermediate supports, J Sound Vib **223**(5) 834-841 (Jun 1999), 12T151
Supersonic flutter analysis of stiffened laminated plates subject to thermal load, J Sound Vib **224**(1) 49-67 (Jul 1999), 12A263

154H. Shells

Exact shell theory analysis of free vibrations of submerged thin spherical shells, Int J Solids Struct **35**(33) 4381-4389 (Nov 1998), 1A159
Experimental study of resonance and dissipative properties of cylindrical shell of glass fiber reinforced plastic filled with liquid, Prikl Mekh (Appl Mech) **34**(2) 39-42 (1998), 1T160
Wave dispersion in deep multilayered doubly curved viscoelastic shells, J Sound Vib **214**(3) 531-552 (Jul 1998), 1A161
Vibration of a hydroelastic system consisting of a sector shell and viscous liquid in zero gravity, J Fluids Struct **12**(3) 367-385 (Apr 1998), 1A286
Analysis of free damped vibrations of laminated composite conical shells, Composite Struct **41**(1) 39-47 (Jan 1998), 1A639
Parametric resonance of a rotating cylindrical shell subjected to periodic axial loads, J Sound Vib **214**(3) 513-529 (Jul 1998), 1A720
Damage index algorithm for a circular cylindrical shell, J Sound Vib **215**(3) 587-591 (Aug 1998), 2T226
Dynamic analysis of single-anchor inflatable dams, J Sound Vib **215**(2) 251-272 (Aug 1998), 2A227
Free vibrations of transversely isotropic cylinders and cylindrical shells. J Pressure Vessel Tech **120**(4) 321-324 (Nov 1998), 2A228
Nonaxisymmetric vibration of ithotropic cylindrical shells with allowance for transverse normal and shear deformation (Russian), Prikl Mekh (Appl Mech) **33**(7) 36-42 (1997), 2A229
Numerical dimension-reduction methods for nonlinear shell vibrations, J Sound Vib **215**(3) 527-545 (Aug 1998), 2A230
Numerical solution of the problem on free axisymmetrical oscillations of a hollow orthotropic cylinder under various adjustment of end-faces (Russian), Prikl Mekh (Appl Mech) **33**(5) 49-54 (1998), 2T231
Numerical study of nonaxisymmetrical oscillations of the shell of revolution under nonstationary loading (Russian), Prikl Mekh (Appl Mech) **34**(5) 68-75 (1998), 2A232
Ultimate dynamics of corrugated shells, Comput Struct **69**(2) 159-170 (Oct 1998), 2A233
Vibration analysis of rotating composite cylindrical shells with orthogonal stiffeners, Comput Struct **69**(2) 271-281 (Oct 1998), 2A234
Vibration of open cylindrical shells: A 3D elasticity approach, J Acoust Soc Am **104**(3-PT1) 1436-1443 (Sep 1998), 2A235
Vibration of shallow shells due to removal of formwork, J Sound Vib **215**(3) 425-437 (Aug 1998), 2A236
Three-dimensional exact free vibration analysis of transversely isotropic cylindrical panels, J Vib Acoust **120**(4) 982-986 (Oct 1998), 2A238
Natural frequencies and mode shapes of two coaxial cylindrical shells coupled with bounded fluid, J Sound Vib **215**(1) 105-124 (Aug 1998), 2A340
Analysis and optimization of bellows with general shape, J Pressure Vessel Tech **120**(4) 325-333 (Nov 1998), 2A707
Active control of vibrations and noise of double wall cylindrical shells, J Sound Vib **216**(5) 865-888 (Oct 1998), 3A169
Free vibration of composite circular cylindrical shells with random material properties - Part I: General theory, Composite Struct **41**(3-4) 331-338 (Mar-Apr 1998), 3A170
Nonlinear static and dynamic analysis of shell structures with finite rotation, Comput Methods Appl Mech Eng **162**(1-4) 301-315 (Aug 1998), 3A171
Unsteady deformation of elastic solids in the shape of a circular cylindrical segment, J Appl Math Mech **62**(2) 315-318 (1998), 3A172
Vibration analysis of laminated shells using a refined shear deformation theory, J Reinforced Plastics Composites **17**(16) 1431-1449 (1998), 3A173
Vibroacoustics of cylindrical pipes: Internal radiation modal coupling, J Sound Vib **215**(5) 1165-1179 (Sep 1998), 3A331
Free vibration of elastically supported thin cylinders including gyroscopic effects, J Sound Vib **217**(3) 547-562 (Oct 1998), 4A165
Free vibration of thin, isotropic, open, conical panels, J Sound Vib **217**(2) 297-320 (Oct 1998), 4A166
Frequency equation of thin shell vibration in the transition range, J Sound Vib **217**(1) 33-41 (Oct 1998), 4A167
Vibration of functionally graded cylindrical shells, Int J Mech Sci **41**(3) 309-324 (Mar 1999), 4A168
Use of modal tailoring to minimize the radiated sound power to vibrating shells: Theory and experiment, J Sound Vib **217**(2) 335-350 (Oct 1998), 4A325
Transient analysis of thin-walled structures using macro spline FEs, Eng Struct **21**(3) 255-266 (Mar 1999), 5A29
Subharmonic bifurcation of a viscoelastic circular cylindrical shell, Nonlinear Dyn **17**(2) 159-171 (Oct 1998), 5A101
Finite element analysis of shear deformation in laminated anisotropic shells of revolution, J Sound Vib **218**(1) 164-176 (Nov 1998), 5T136
Free vibration response of shear-deformable antisymmetric cross-ply cylindrical panels, J Sound Vib **217**(4) 601-618 (Nov 1998), 5A137
Stability and asymmetric vibrations of pressurized compressible hyperelastic cylindrical shells, Int J Non-Linear Mech **34**(3) 391-404 (May 1999), 5A138
Vibrations of cylindrical pipes and open shells, J Sound Vib **218**(3) 361-387 (Dec 1998), 5A139
Wave decomposition of the vibrations of a cylindrical shell with an automated scanning laser vibrometer, J Acoust Soc Am **104**(6) 3161-3168 (Dec 1998), 5A140
Vibration control of shallow shell structures using a shell-type dynamic vibration absorber, J Sound Vib **218**(2) 245-267 (Nov 1998), 5A171
Vibration of plates and shells using FEs: 1996-1997, Finite Elements Anal Des **31**(3) 223-230 (Jan 1999), 6A21
Bifurcation analyses in the parametrically excited vibrations of cylindrical panels, Nonlinear Dyn **17**(3) 205-225 (Nov 1998), 6A104
Approximate nonlinear equations of motion of cylindrical shells from the composition materials (Russian), Prikl Mekh (Appl Mech) **34**(10) 55-59 (1998), 6T163
Dynamic analysis of shallow shells of rectangular base, J Sound Vib **218**(5) 861-882 (Dec 1998), 6A164
Effect of thermal depolarization and thermomechanical dependence on harmonious oscillations and dissipative hearing of conic piezoceramic shells (Russian), Prikl Mekh (Appl Mech) **34**(8) 62-67 (1998), 6A165
Exact analysis of free vibrations of embedded transversely isotropic cylindrical shells, Int J Pressure Vessels Piping **75**(13) 961-966 (Nov 1998), 6A166
Forced oscillations of a cylindrical shell: Transitional process under non-constant disturbing load (Russian), Prikl Mekh (Appl Mech) **34**(7) 42-48 (1998), 6A167
Free vibration analysis of curved and twisted cylindrical thin panels, J Sound Vib **219**(1) 63-88 (Jan 1999), 6A168
Nonlinear problems of oscillations of thin shells (Russian), Prikl Mekh (Appl Mech) **34**(8) 3-31 (1998), 6A169
Numerical determination of frequencies and discontinuous forms of free oscillations of a thick long shell regularly strengthened by the circular ribs (Russian), Prikl Mekh (Appl Mech) **34**(8) 68-74 (1998), 6A170
Vibration analysis of a nearly axisymmetric shell structure using a new finite ring element, J Sound Vib **219**(1) 35-50 (Jan 1999), 6A171
Dynamic response to ring-stiffened cylindrical shells under non-uniform and impulsive loading (Chinese), J Huazhong Univ Sci Tech **26**(10) 22-25 (Oct 1998), 6A235
Nonlinear vibrations of simply supported, circular cylindrical shells coupled to quiescent fluid, J Fluids Struct **12**(7) 883-918 (Oct 1998), 6T265
Elasticity solution and free vibrations analysis of laminated anisotropic cylindrical shells, Struct Eng and Mech 7(2) 181-202 (Feb 1999), 6A603
Effects of subtended and vertex angles on the free vibration of open conical shell panels: A conical coordinate approach, J Sound Vib **219**(5) 813-835 (Feb 1999), 7A156
Free vibration of a laminated composite shell of revolution: Effects of shear nonlinearity, Int J Mech Sci **41**(6) 649-661 (Jun 1999), 7A157
Natural frequencies of fluid-filled transversely isotropic cylindrical shells, Int J Mech Sci **41**(6) 677-684 (Jun 1999), 7A158
Nonlinear free vibration analysis of rotating hybrid cylindrical shells, Comput Struct **70**(2) 161-168 (Jan 1999), 7A159
Normal mode oscillation of a sphere with solid-gas-solid structure, J Acoust Soc Am **105**(2) 693-699 (Feb 1999), 7A160
Parametric resonance of cylindrical shells by different shell theories, AIAA J **37**(1) 137-140 (Jan 1999), 7T161
Response of curved laminated panels subjected to transverse impact loads, Int J Solids Struct **36**(9) 1311-1327 (Mar 1999), 7A162
Vibration and critical speed of a rotating cylindrical shell subjected to axial loading, Appl Acoust **56**(4) 273-282 (Apr 1999), 7A163
Efficient tool for predicting the structural acoustic and vibration response of sandwich plates in light or heavy fluid, Appl Acoust **57**(3) 213-242 (Jul 1999), 7A167
Closed-form solution procedure for circular cylindrical shell vibrations, Int J Solids Struct **36**(20) 2973-3013 (Jul 1999), 8A155
Free vibration behavior of helically wound cylindrical shells, Composite Struct **44**(1) 55-62 (Jan 1999), 8A156
Further comments on nonlinear vibrations of shells, J Fluids Struct **13**(1) 159-160 (Jan 1999), 8T157
LQR control of thin shell dynamics: Formulation and numerical implementation, J Intelligent Mat Syst Struct **9**(4) 301-320 (Apr 1998), 8A158
Reissner's mixed variational theorem applied to vibration analysis of multilayered shell, J Appl Mech **66**(1) 69-78 (Mar 1999), 8A159
Vibration of antisymmetric angle-ply laminated cylindrical panels with different boundary conditions, Quart J Mech Appl Math **51**(PT1) 55-71 (Feb 1999), 8A160
Development of an automotive joint model using an analytically based formulation, J Sound Vib **220**(4) 625-640 (Mar 1999), 8A184
Repulsion phenomena in the phase-velocity dispersion curves of circumferential waves on elastic cylindrical shells, J Acoust Soc Am **105**(3) 1695-1701 (Mar 1999), 8A265
Vibro-acoustic behavior of submerged cylindrical shells: Analytical formulation and numerical model, J Fluids Struct **12**(8) 959-1003 (Nov 1998), 8T266
Geometry and strength of general helicoidal shells, Appl Mech Rev **52**(5) 161-175 (May 1999), 8A623
Vibroacoustic response of a cylindrical shell structure with viscoelastic and poroelastic materials, Appl Acoust **58**(2) 131-152 (Oct 1999), 9A39
Mechanics of cylindrical shells with non-circular cross-section: A survey, Appl Mech Rev **52**(8) 237-274 (Aug 1999), 9A168
Radial vibrations of axisymmetrically loaded stepped pressure vessels, Appl Math Mech **20**(1) 105-109 (Jan 1999), 9A169
Added fluid mass for bellows expansion joints in axial vibrations, J Pressure Vessel Tech **121**(2) 216-219 (May 1999), 9A283
Study of the characteristics of vibration in a double shell in a fluid field, J Huazhong Univ Sci Tech **27**(1) 72-73 (Jan 1999), 9A288
Vibrations of circular tubes and shells filled and partially immersed in dense fluids, J Sound Vib **221**(4) 567-585 (Apr 1999), 9A289
Dynamics of Thin Walled Elastic Bodies (Academic, San Diego, CA, 1998) 10R5
Structural Dynamics in Aeronautical Engineering (AIAA, Reston, VA, 1999) 10R6
Thin-Walled Cellular Structures: Methods for Their Analysis (Balkema, Rotterdam, Netherlands, 1999) 10R15
Boundary value problems of longitudinal oscillations of the circular cylindrical shells (Russian), Prikl Mekh (Appl Mech) **34**(12) 34-40 (1998), 10A188
Comments on "vibrational analysis of mass loaded plates and shallow shells by the receptance method with application to the steelpan", J Sound Vib **222**(3) 503-504 (May 1999), 10T189
Effect of changes in the frequency of disturbing loading on the transition process of oscillations of a cylindrical shell (Russian), Prikl Mekh (Appl Mech) **34**(12) 41-47 (1998), 10A190
Forms of oscillations ad mechanical losses of energy in a hollow truncated piezoceramic cone (Russian), Prikl Mekh (Appl Mech) **34**(11) 32-37 (1998), 10T191
Interaction of vibration forms on amplitude-frequency dependences of the ribbed cylindrical shell (Russian), Prikl Mekh (Appl Mech) **34**(11) 52-59 (1998), 10A192
Nonlinear analysis of compressively-thermally stressed elastic shell structures on the steelpan and the underlying theory of the tuning process, J Sound Vib **222**(4) 597-620 (May 1999), 10A193
Study of chaotic motion in elastic cylindrical shells, Eur J Mech A **18**(2) 351-360 (Mar-Apr 1999), 10A194
Study of nonlinear vibrations of cylindrical shells with regard for energy dissipation (Russian), Prikl Mekh (Appl Mech) **35**(2) 30-35 (1999), 10A195
Space-harmonic analysis of input power flow in a periodically stiffened shell filled with fluid, J Sound Vib **222**(4) 531-546 (May 1999), 10A312
Analysis of nonlinear interaction of the bent forms of the round cylindrical shells under their periodic excitation (Russian), Prikl Mekh (Appl Mech) **34**(12) 62-69 (1998), 10A686
Buckling and vibration analysis of composite sandwich plates with elastic rotational edge restraints, AIAA J **37**(5) 579-587 (May 1999), 11A206
Influence of boundary conditions on the frequency characteristics of a rotating truncated circular conical shell, J Sound Vib **223**(2) 171-195 (Jun 1999), 11A207
Structural response of cylindrical shells to internal shock loading, J Pressure Vessel Tech **121**(3) 315-322 (Aug 1999), 11A208
Selective modal transducers for piezolaminated anisotropic shells, J Guidance Control Dyn **22**(3) 455-466 (May-Jun 1999), 11A398
Non-axisymmetric dynamic response of buried orthotropic cylindrical shells under moving load, Struct Eng and Mech **8**(1) 39-51 (Jul 1999), 11A579
Numerical simulation of cylindrical laminated shells under impulsive lateral pressure, AIAA J **37**(5) 629-633 (May 1999), 11A600
Simulation of wind process by spectral representation method and application to cooling tower shell, Wind Struct **2**(2) 105-117 (Jun 1999), 12A152

154I. Plates and shells (thick)

Nonlinear Analysis of Structures (CRC Press, Boca Raton FL, 1998) 1R11
Three-dimensional vibration of thick plates, J Shanghai Univ **2**(2) 112-116 (Jun 1998), 1A162
Evaluation of fundamental vibration frequency of an orthotropic bending plate by using an iterative approach, Comput Methods Appl Mech Eng **161**(3-4) 289-296 (Aug 1998), 2A237
Three-dimensional exact free vibration analysis of transversely isotropic cylindrical panels, J Vib Acoust **120**(4) 982-986 (Oct 1998), 2A238
Reflection of a spherical sound wave by an infinite elastic plate driven to vibration by a point force, Appl Acoust **55**(4) 253-273 (Dec 1998), 2A403
Tension-induced conveyor belts: A FE free vibration study, J Vib and Control **4**(6) 673-696 (Nov 1998), 4A169
Fundamental frequency of transverse vibration of simply supported and clamped plates of regular polygonal shape with a concentric circular support, J Sound Vib **217**(5) 945-949 (Nov 1998), 5T141
Three dimensional elasticity solution for vibration problem of thick plate, Appl Math Mech **19**(7) 615-624 (Jul 1998), 5A142
Vibration studies of cross-ply laminated shear deformable circular cylinders on the basis of orthogonal polynomials, J Sound Vib **218**(2) 219-243 (Nov 1998), 5A143
Free vibration of thick generally laminated quadrilateral plates having arbitrarily located point supports, J Aircraft **35**(6) 958-965 (Nov-Dec 1998), 6A172
Nonlinear vibration of thin plates with initial stress by spline finite strip method, Thin-Walled Struct **32**(4) 275-287 (Dec 1998), 6A173
Three-dimensional free vibration of thick laminated cylindrical shells with clamped edges, J Sound Vib **220**(1) 171-177 (Feb 1999), 7T164
Chaotic response of panel vibrations forced by turbulent boundary layer and sound, AIAA J **37**(3) 289-295 (Mar 1999), 8A161
Frequency response of moderately thick simply supported rectangular plates with arbitrary lamination, Int J Solids Struct **36**(15) 2285-2301 (May 1999), 8A162
Vibration of symmetrically laminated thick super elliptical plates, J Sound Vib **220**(4) 659-682 (Mar 1999), 8A163
Vibration of unsymmetrically laminated thick quadrilateral plates, J Acoust Soc Am **105**(3) 1672-1681 (Mar 1999), 8A164
Dynamic model for thick elastic plates, J Sound Vib **221**(2) 187-203 (Mar 1999), 9A170
Effect of stacking sequence on free vibration frequencies of laminated composite circular cylindrical shells, J Vib and Control **5**(3) 355-372 (May 1999), 11A209
Nonlinear oscillations of viscoelastic rectangular plates, Nonlinear Dyn **18**(4) 311-319 (Apr 1999), 12A115

154J. Discs and blades

Forced response analysis in time and frequency domains of a tuned bladed disk with friction dampers, J Sound Vib **214**(3) 395-412 (Jul 1998), 1A132
Effect of cracks on the natural frequency of cantilevered plates: A Rayleigh-Ritz solution, Mech Struct Machines **26**(2) 131-143 (1998), 1A153
Characterization of laws of friction in the context of engine blade dynamics, J Eng Gas Turbines Power **120**(4) 759-765 (Oct 1998), 2A239

Nonconservative stability of a friction loaded disk, J Vib Acoust **120**(4) 922-929 (Oct 1998), 2A240
Structural optimization for vibratory loads reduction of composite helicopter rotor blades with advanced geometry tips, J Am Helicopter Soc **43**(3) 246-256 (Jul 1998), 2A241
Vibration and sensitivity analysis of a spinning disk under tangential edge loads, J Sound Vib **215**(1) 1-15 (Aug 1998), 2A242
Theory and methodology of optimally measuring vibratory strains in closely spaced modes, J Eng Gas Turbines Power **120**(4) 801-807 (Oct 1998), 2A275
Sensitivity of blade vibration to structural parameters as influenced by frequency (Chinese), J Xi'an Jiaotong Univ **32**(9) 68-71 (1998), 3A174
Friction-induced vibration of an elastic slider on a vibrating disc, Int J Mech Sci **41**(3) 325-336 (Mar 1999), 4A170
Comments on rocking motion on rotating disk-spindle systems, J Appl Mech **65**(4) 1061-1062 (Dec 1998), 5T144
Coupled vibration analysis of piezoelectric ceramic disk resonators, J Sound Vib **218**(2) 205-217 (Nov 1998), 5A145
Mode identification of a rotating disk, Exp Mech **38**(4) 250-254 (Dec 1998), 5A146
Vibration of a mistuned bladed-disk assembly using structurally damped beams, AIAA J **36**(12) 2225-2228 (Dec 1998), 6A174
Dynamic model of coupled shaft torsional and blade bending deformations in rotors, Comput Methods Appl Mech Eng **169**(1-2) 177-190 (Jan 1999), 7A165
Analytical vibration of spinning, elastic disk-spindle systems, J Appl Mech **66**(1) 218-224 (Mar 1999), 8A165
Mode localization of a cracked blade disk, J Eng Gas Turbines Power **121**(2) 335-341 (Apr 1999), 8A166
Geometry and strength of general helicoidal shells, Appl Mech Rev **52**(5) 161-175 (May 1999), 8A623
Elastic-plastic rotating disk with rigid inclusion, Mech Struct Machines **27**(1) 117-128 (1999), 8A643
Dynamics and robust control of a high speed optical pickup, J Sound Vib **221**(4) 607-621 (Apr 1999), 9A153
Free vibrations of a flexible spinning disk with axial translation and rigid-body tilting, JSME Int J Ser C **41**(3) 329-337 (Sep 1998), 9A171
Nonlinear forced oscillation of a rotating disk excited at a point fixed in space: Combination tones near primary resonance points, JSME Int J Ser C **41**(3) 592-598 (Sep 1998), 9A172
Bending coupled natural frequencies of a spinning, multispan Timoshenko shaft carrying elastic disks, J Sound Vib **221**(4) 623-649 (Apr 1999), 9A174
Transverse vibration of a rectangularly orthotropic spinning disk - Part I: Formulation and free vibration, J Vib Acoust **121**(3) 273-279 (Jul 1999), 10A186
Transverse vibration of a rectangularly orthotropic spinning disk - Part 2: Forced vibration and critical speeds, J Vib Acoust **121**(3) 280-285 (Jul 1999), 10A187
Free vibration analysis of rotating twisted cylindrical thin panels, J Sound Vib **222**(2) 209-224 (Apr 1999), 10A196
Free vibration and stability of a spinning disk-spindle system, J Vib Acoust **121**(3) 391-396 (Jul 1999), 10A197
Modeling and dynamic behavior of rotating blades carrying a tip mass and incorporating adaptive capabilities, Acta Mech **134**(3-4) 169-197 (1999), 10A198
Prediction of resonant response of shrouded blades with 3D shroud constraint, J Eng Gas Turbines Power **121**(3) 523-529 (Jul 1999), 10A199
Reduced order modeling and vibration analysis of mistuned bladed disk assemblies with shrouds, J Eng Gas Turbines Power **121**(3) 515-522 (Jul 1999), 10A200
Exact solutions for the free and forced vibration of a rotating disk: Spindle system, J Sound Vib **223**(3) 445-465 (Jun 1999), 11A210
Three-dimensional vibration analysis of long grouped blade for large power steam turbine (Chinese), J Xi'an Jiaotong Univ **33**(5) 54-57 (1999), 11A211
Dynamic study of a structure with flexion-torsion coupling in the presence of dry friction, Nonlinear Dyn **18**(4) 321-337 (Apr 1999), 12A153
Frequency constants for transverse vibration of annular disks, J Acoust Soc Am **105**(6) 3311-3317 (Jun 1999), 12A154
Effects of design parameters on bouncing vibrations of a single-dof contact slider and necessary design conditions for perfect contact sliding, J Trib **121**(3) 596-603 (Jul 1999), 12A982

154K. Rotating shafts (critical speed, balancing)

Machinery Malfunction, Diagnosis, and Correction: Vibration Analysis and Troubleshooting for the Process Industries (Prentice Hall, Upper Saddle River, NJ, 1998) 1R8
Stability and bifurcation of rotor motion in a magnetic bearing, J Sound Vib **214**(5) 793-803 (Jul 1998), 1A163
Stiffness estimation from random response in multi-mass rotor bearing systems, Probab Eng Mech **13**(4) 255-268 (Oct 1998), 1A164
Identification of a nonlinear electromagnetic system: An experimental study, J Sound Vib **214**(5) 853-871 (Jul 1998), 1A350
Finite element modeling of a rotor shaft rolling bearings system with consideration of bearing nonlinearities, J Vib and Control **4**(5) 541-602 (Sep 1998), 2A243
Nonlinear model of vibrations in a rotor-bearings system, J Vib and Control **4**(5) 519-540 (Sep 1998), 2A244
Analysis of rotor balancing behavior as influenced by locations of data measurements (Chinese), J Xi'an Jiaotong Univ **32**(7) 85-89 (1998), 3A175
Distributed rotor dynamics, J Syst Control Eng **212**(I4) 249-265 (1998), 3A176
Method of judging the self-excited vibration of rolling main drive system in rolling slippage, J Sound Vib **215**(5) 1135-1143 (Sep 1998), 3A177
Modal characteristics of cracked rotors using a conical shaft FE, Comput Methods Appl Mech Eng **162**(1-4) 223-247 (Aug 1998), 3A178
Optimal design of complex flexible rotor-support systems using minimum strain energy under multi-constraint conditions, J Sound Vib **215**(5) 1121-1134 (Sep 1998), 3A179
Vibro-acoustic analysis and identification of defects in rotating machinery - Part I: Theoretical model, J Sound Vib **216**(4) 533-570 (Oct 1998), 3A180
Vibro-acoustic analysis and identification of defects in rotating machinery - Part II: Experimental study, J Sound Vib **216**(4) 571-583 (Oct 1998), 3A181
Holospectrum decomposition as a diagnostic tool for rotating machinery (Chinese), J Xi'an Jiaotong Univ **32**(7) 94-97 (1998), 3A186
Stability and control of a parametrically excited rotating beam, J Dyn Syst Meas Control **120**(4) 462-470 (Dec 1998), 3A421
Comparison between linear and nonlinear transient analysis techniques to find the stability of a rigid rotor, J Trib **121**(1) 198-201 (Jan 1999), 4A171
Dynamic response of a coupled spinning Timoshenko shaft system, J Vib Acoust **121**(1) 110-113 (Jan 1999), 4A172
Efficient computation of nonlinear responses of a rotating assembly incorporating the squeeze-film damper, Comput Methods Appl Mech Eng **164**(3-4) 363-373 (Oct 1998), 4A173
Finite element analysis of whirl speeds for rotor-bearing systems with internal damping, Mech Syst Signal Processing **12**(5) 599-610 (Sep 1998), 4T174
Steady-state dynamic behavior of a flexible rotor with auxiliary support from a clearance bearing, J Vib Acoust **121**(1) 78-83 (Jan 1999), 4A175
Rotordynamic evaluation of a roughened-land hybrid bearing, J Trib **121**(1) 133-138 (Jan 1999), 4A970
Parametric investigation of the steady-state response of a mechanical seal with two flexibly mounted rotors, J Trib **121**(1) 69-76 (Jan 1999), 4A971
Journal asymmetric heating - Part II: Alteration of rotor dynamic properties, J Trib **121**(1) 164-168 (Jan 1999), 4A1297
Application of Floquet methods in the analyses of rotordynamic systems, J Sound Vib **218**(2) 350-360 (Nov 1998), 5T147
Improved least square influence coefficient method for balancing mass of rotors (Chinese), J Xi'an Jiaotong Univ **32**(11) 76-80 (1998), 5A148
Method of multiple scales for vibration analysis of rotor-shaft systems with nonlinear bearing pedestal model, J Sound Vib **218**(2) 293-305 (Nov 1998), 5A149
Numerical and experimental analysis of a continuous overhung rotor undergoing vibro-impacts, Int J Non-Linear Mech **34**(3) 415-435 (May 1999), 5A150
Continuous Poincare-like cell mapping method and its application to nonlinear dynamics analysis of a bearing-rotor system, Trib Int **31**(7) 369-375 (Jul 1998), 6A105
Electromagnetic bearing actuator for active vibration control of a flexible rotor, Proc Inst Mech Eng C **212**(C8) 705-716 (1998), 6A175
Mathematic model of coupled bending and torsional vibration of shaft systems (Chinese), J Tsinghua Univ Sci Tech **38**(8) 114-117 (Aug 1998), 6A176
Moving stability analysis of a rotor-damper-seal system (Chinese), J Tsinghua Univ Sci Tech **38**(8) 107-110 (Aug 1998), 6A177
Recommended control configurations for DC drives with flexible shafts, J Vib and Control **5**(1) 95-122 (Jan 1999), 6A178
Transverse mode localization in a dual-span rotating shaft, J Sound Vib **219**(1) 133-155 (Jan 1999), 6A179
Vibration characteristics for piezoelectric cylinders using amplitude-fluctuation electronic speckle pattern interferometry, AIAA J **36**(12) 2262-2268 (Dec 1998), 6A180
Influence of the electromagnetic balancing regulator on the rotor system, J Sound Vib **219**(4) 723-729 (Jan 1999), 7T166
Qualitative characterization of anti-swirl gas dampers, J Eng Gas Turbines Power **121**(2) 342-348 (Apr 1999), 8A118
Simulation of the dynamic behavior of single and multi-stage geared systems with shape deviations and mounting errors by using a spectral method, J Sound Vib **220**(5) 861-903 (Mar 1999), 8A132
Bulk-flow analysis of multiple-pocket gas damper seals, J Eng Gas Turbines Power **121**(2) 355-363 (Apr 1999), 8A167
Experimental rotordynamic characterization of annular seals: Facility and Methodology, J Eng Gas Turbines Power **121**(2) 349-354 (Apr 1999), 8A168
Modal analysis of rotor on piecewise linear journal bearings under seismic excitation, J Vib Acoust **121**(2) 190-196 (Apr 1999), 8A169
Nonlinear vibration analysis of the coupled textile-rotor system by FEM, J Sound Vib **221**(1) 67-84 (Mar 1999), 8A170
Vibration control of a rotating shaft: An analytical solution, J Appl Mech **66**(1) 254-259 (Mar 1999), 8A171
Dynamic instability of a turbine generator due to microslip, J Vib Acoust **121**(2) 162-168 (Apr 1999), 8A191
Theoretical model for nonlinear planar motions of rotors under fluid confinement, J Fluids Struct **13**(1) 103-126 (Jan 1999), 8T263
Unbalance response and stability analysis of a rotor supported on hydrodynamic journal bearings with rough surfaces, Proc Inst Mech Eng J: Eng Trib **213**(J1) 31-34 (1999), 8T1257
Application of strain energy analysis to balancing of an initial bend rotor (Chinese), J Vib Eng **12**(1) 133-138 (Mar 1999), 9T94
Author's reply, J Sound Vib **221**(5) 904-905 (Apr 1999), 9T173
Bending coupled natural frequencies of a spinning, multispan Timoshenko shaft carrying elastic disks, J Sound Vib **221**(4) 623-649 (Apr 1999), 9A174
Comments on "computing critical speeds for rotating machines with speed dependent bearing properties", J Sound Vib **221**(5) 903-905 (Apr 1999), 9T175
Nonstationary oscillations of a nonlinear rotor during acceleration through the major critical speed: Influence of internal resonance, JSME Int J Ser C **41**(3) 599-607 (Sep 1998), 9A202
Free vibration and stability of a spinning disk-spindle system, J Vib Acoust **121**(3) 391-396 (Jul 1999), 10A197
Dynamic behavior of geared rotors, J Eng Gas Turbines Power **121**(3) 494-503 (Jul 1999), 10A201
Dynamic stability of a rotating shaft driven through a universal joint, J Sound Vib **222**(1) 19-47 (Apr 1999), 10A202
Free vibration of axially loaded, rotating Timoshenko shaft systems by the wave-train closure principle, Int J Solids Struct **36**(26) 4031-4049 (Sep 1999), 10A203
Regular and chaotic dynamics of a rotational machine with a centrifugal governor, Int J Eng Sci **37**(7) 921-943 (May 1999), 10A204
Stability analysis and testing of a train of centrifugal compressors for high pressure gas injection, J Eng Gas Turbines Power **121**(3) 509-514 (Jul 1999), 10A205
Exact solutions for the free and forced vibration of a rotating disk: Spindle system, J Sound Vib **223**(3) 445-465 (Jun 1999), 11A210
Design of optimum support parameters for minimum rotor response and maximum stability limit, J Sound Vib **223**(1) 1-21 (May 1999), 11A212
Vibrational analysis of a cracked shaft, J Struct Eng (India) **25**(4) 255-260 (Jan 1999), 11T213
Modeling and vibration analysis of misaligned rotor-ball bearing systems, J Sound Vib **224**(1) 17-32 (Jul 1999), 12A155
Theoretical and experimental investigations on the spinning BTA deep-hole drill shafts containing fluids and subject to axial forces, Int J Mech Sci **41**(11) 1301-1322 (Nov 1999), 12A156
Transverse vibration of a rotating twisted Timoshenko beams under axial loading using differential transform, Int J Mech Sci **41**(11) 1339-1356 (Nov 1999), 12A157
Vibration characteristics of a cracked rotor with two open cracks, J Sound Vib **223**(4) 497-512 (Jun 1999), 12A158

154L. Frames, trusses, and arches

Dynamics of trusses: Numerical and experimental results, J Sound Vib **214**(5) 953-964 (Jul 1998), 1T165
Flexibility-based linear dynamic analysis of complex structures with curved-3D members, Earthquake Eng Struct Dyn **27**(7) 731-747 (Jul 1998), 1A166
Natural vibration analysis of diagonal networks, Struct Eng and Mech **6**(5) 517-527 (Jul 1998), 1A167
Improved first-order approximation of eigenvalues and eigenvectors, AIAA J **36**(9) 1721-1727 (Sep 1998), 2A127
Vibration and buckling of initially stressed curved beams, J Sound Vib **215**(3) 511-526 (Aug 1998), 2A245
Vibration of a T-type curved frame due to a moving force, J Sound Vib **215**(1) 143-165 (Aug 1998), 2A246
Damage localization and quantification of earthquake excited RC-frames, Earthquake Eng Struct Dyn **27**(9) 903-916 (Sep 1998), 2A1479
Structural damage detection by a sensitivity and statistical-based method, J Sound Vib **216**(5) 791-808 (Oct 1998), 3A187
Macroelement method for catenary mode analysis, Comput Struct **69**(6) 767-772 (Dec 1998), 4A176
Statistics of vibration energy flow in randomly parametered trusses, J Sound Vib **217**(1) 43-74 (Oct 1998), 4A177
Steady state motions of shallow arch under periodic force with 1:2 internal resonance on the plane of physical parameters, Appl Math Mech **19**(7) 625-635 (Jul 1998), 5A151
Automated design technique for nonlinear structures and controllers, J Vib and Control **5**(1) 123-150 (Jan 1999), 6A121
Development of the experimental spatial matrix identification method: Theory and basic verification with a frame structure, J Sound Vib **219**(1) 5-22 (Jan 1999), 6A181
Modal interactions in a frame under support motions, Proc Inst Mech Eng C **212**(C8) 667-686 (1998), 6A182
Natural frequencies of non-circular arches with rotatory inertia and shear deformation, J Sound Vib **219**(1) 23-33 (Jan 1999), 6A183
Vibration analysis of spinning frame by using modal testing technique (Chinese), J Tsinghua Univ Sci Tech **38**(8) 22-24 (Aug 1998), 6A184
Development of a coupled approach for structural damage detection with incomplete measurements, AIAA J **36**(12) 2209-2217 (Dec 1998), 6A332
Structural damage localization from modal strain energy change, J Sound Vib **218**(5) 825-844 (Dec 1998), 6A338
Vibration of Solids and Structures under Moving Loads (Telford, UK, 1999) 8R7
Dynamic analysis of framed structures with statistical uncertainties, Int J Numer Methods Eng **44**(8) 1157-1178 (Mar 1999), 8A172
Dynamics simulation of flexible frame structures with time-varying shape and attitude, J Vib Acoust **121**(2) 244-249 (Apr 1999), 8A173
Improvement of analytical model using uncertain test data, AIAA J **37**(4) 489-495 (Apr 1999), 9A65
Dynamic response and wave propagation in plane trusses and frames, AIAA J **37**(5) 594-603 (May 1999), 11A233
Nonlinear seismic analysis of base-isolated RC frame structures, Earthquake Eng Struct Dyn **28**(6) 633-653 (Jun 1999), 11A1569
Precise and efficient computation of complex structures with TMD devices, J Sound Vib **223**(5) 693-701 (Jun 1999), 12A129

154M. Sandwich materials

Steady-state torsional oscillations of multilayer truncated cones, Prikl Mekh (Appl Mech) **34**(3) 64-68 (1998), 1A168
Nonlinear vibration of a multilayer sandwich beam with viscoelastic layers, J Sound Vib **216**(4) 601-621 (Oct 1998), 3A142
Complex eigensolutions of rectangular plates with damping patches, J Sound Vib **216**(1) 1-28 (Sep 1998), 3A158
Investigation of nonlinear dynamics of multilayered plates accounting for C_z^0 requirements, Comput Struct **69**(4) 473-486 (Nov 1998), 3A182
Dynamic characteristics of sandwich beam with embedded Electro-Rheological fluid, J Intelligent Mat Syst Struct **9**(1) 60-68 (Jan 1998), 4A633
Forward and inverse analysis for impact on sandwich panels, AIAA J **36**(11) 2310-2136 (Nov 1998), 5A219
Development of approximate methods for the analysis of patch damping design concepts, J Sound Vib **219**(5) 785-812 (Feb 1999), 7A123
Efficient tool for predicting the structural acoustic and vibration response of sandwich plates in light or heavy fluid, Appl Acoust **57**(3) 213-242 (Jul 1999), 7A167
Free vibration of skew laminates, Comput Struct **70**(4) 415-423 (Feb 1999), 7A168
Torsional vibration and damping analysis of sandwich beams, J Reinforced Plastics Composites **18**(2) 96-117 (1999), 7A169
Transverse vibrations of elastically connected rectangular double-membrane compound system, J Sound Vib **221**(2) 235-250 (Mar 1999), 9A176
Mechanical behavior and sound generation efficiency of prestressed, elastically clamped and thermomechanically driven thin film sandwiches, J Micromech Microeng **9**(1) 19-29 (Mar 1999), 9T489
Vibrations of multilayer plates under the effect of impulse loads; 3D theory, Int J Solids Struct **36**(22) 3391-3402 (Aug 1999), 10A206
Experimental study on structural behavior and vibrational characteristics of sandwich plate with alumi-

num honeycomb core, Int J Offshore Polar Eng **8**(2) 148-154 (Jun 1998), 10A694
Damping predication of sandwich structures by order-reduction-iteration approach, J Sound Vib **222**(5) 803-812 (May 1999), 11A173
Buckling and vibration analysis of composite sandwich plates with elastic rotational edge restraints, AIAA J **37**(5) 579-587 (May 1999), 11A206
Simplification of frequency equation of multilayered cylinders and some recursion formulae of Bessel functions, Appl Math Mech **20**(3) 332-337 (Mar 1999), 12A159

154N. Composite materials

Mitigation of 3D vibration of inclined sag cable using discrete oil dampers - I: Formulation, J Sound Vib **214**(4) 659-673 (Jul 1998), 1A148
Vibration analysis of delaminated composites plates under axial load, Mech Struct Machines **26**(2) 195-218 (1998), 1A158
Wave dispersion in deep multilayered doubly curved viscoelastic shells, J Sound Vib **214**(3) 531-552 (Jul 1998), 1A161
Free-vibration analysis of doubly connected superelliptical laminated composite plates, Composites Sci Tech **58**(3-4) 435-445 (Mar-Apr 1998), 1A169
Transient response of a composite plate with delamination, J Appl Mech **65**(3) 664-670 (Sep 1998), 2A224
Oscillations of half-bounded and bounded laminated bodies of stochastic structure (Russian), Prikl Mekh (Appl Mech) **33**(5) 13-19 (1998), 2T669
Dynamic poroelasticity of thinly layered structures, Int J Solids Struct **35**(34-35) 4739-4751 (Dec 1998), 3A573
Use of diagonal modes in the elastic identification of thin plates, J Vib Acoust **121**(1) 33-40 (Jan 1999), 4A164
Chaotic oscillations of a laminated composite cylinder subject to periodic application of temperature, Chaos Solitons Fractals **9**(9) 1529-1554 (Sep 1998), 4A178
Co-cured extension-twist coupled damped composite strut, J Composite Mat **32**(21) 1914-1932 (1998), 4A179
Nonlinear dynamic response analysis of laminated composite cylindrical panels (Chinese), J Shanghai Jiaotong Univ **32**(7) 128-131 (Jul 1998), 4A180
Finite element and dynamic stiffness methods compared for modal analysis of composite wings, AIAA J **36**(11) 2148-2151 (Nov 1998), 5T117
Vibration studies of cross-ply laminated shear deformable circular cylinders on the basis of orthogonal polynomials, J Sound Vib **218**(2) 219-243 (Nov 1998), 5A143
Forced vibration of unsymmetric laminated composite beams under the action of moving loads, Composites Sci Tech **58**(10) 1675-1684 (Oct 1998), 5A152
Layer-wide mixed models for accurate vibrations analysis of multilayered plates, J Appl Mech **65**(4) 820-828 (Dec 1998), 5A153
Use of the free vibration spectrum to detect delamination in thick composites, J Composite Mat **33**(1) 54-72 (1998), 6A185
Influence of amplitude of vibrations on loss factors of Laminated composite beams and plates, J Sound Vib **219**(4) 730-738 (Jan 1999), 7T125
Finite element vibration analysis of composite beams based on higher-order beam theory, J Sound Vib **219**(4) 707-721 (Jan 1999), 7A135
Vibration of completely free composite plates and cylindrical shell panels by a higher-order theory, Int J Mech Sci **41**(8) 891-918 (Aug 1999), 7A170
Reissner's mixed variational theorem applied to vibration analysis of multilayered shell, J Appl Mech **66**(1) 69-78 (Mar 1999), 8A159
Vibration of antisymmetric angle-ply laminated cylindrical panels with different boundary conditions, Quart J Mech Appl Math **51**(PT1) 55-71 (Feb 1999), 8A160
Free vibration analysis of orthogonal-woven fabric composites, Composites Part A Appl Sci and Manuf **30A**(3) 285-297 (1999), 8A174
Free vibration of laminated composite plates without cutout, J Sound Vib **221**(3) 443-470 (Apr 1999), 9A156
Internal resonance of rectangular laminated plates with degenerate modes, JSME Int J Ser C **41**(4) 718-726 (Dec 1998), 9A157
Three-mode response of simply supported, rectangular laminated plates, JSME Int J Ser C **41**(1) 51-59 (Mar 1998), 9A163
Experimental analysis of vibration characteristics of an edge-cracked composite plate by ESPI method, Int J Fracture **91**(4) 311-321 (1998), 9A177
Comparison of the in-plane natural frequencies of symmetric cross-ply laminate beams based on the Bernoulli-Euler and Timoshenko beam theories, J Appl Mech **66**(2) 410-417 (Jun 1999), 10A154
Application of the rapid frequency sweep technique for delamination detection in composite laminates, Adv Composites Letters **8**(1) 19-23 (1999), 10A207
Large amplitude vibration of polymer composite stiffened laminates by the FEM, J Reinforced Plastics Composites **18**(5) 421-436 (1999), 10A208
Natural frequencies of composite plates with tailored thermal residual-stresses, Int J Solids Struct **36**(23) 3517-3539 (Aug 1999), 10A209
Natural frequencies of a multilayer composite plate with shape memory alloy wires, Finite Elements Anal Des **32**(2) 71-83 (Apr 1999), 10A655
Optimum design of laminated composite plates undergoing large amplitude oscillations, Appl Composite Mat **6**(2) 87-98 (Mar 1999), 10A696
Effect of stacking sequence on free vibration frequencies of laminated composite circular cylindrical shells, J Vib and Control **5**(3) 355-372 (May 1999), 11A209
Free vibrations of laminated composite plates using second-order shear deformation theory, Comput Struct **71**(6) 617-626 (Jun 1999), 11A214
Vibration of delaminated thin composite plates, Composites Part A Appl Sci and Manuf **30A**(8) 989-995 (1999), 12A160

154O. Structural elements on foundations

Dynamic analysis of rigid surface footings by BEM, J Sound Vib **214**(4) 747-759 (Jul 1998), 1A66
Elastic field generated by two loads moving along two strings on an elastically supported membrane, J Sound Vib **214**(4) 725-746 (Jul 1998), 1A147
Nonaxisymmetric periodic and nonstationary oscillations of round die on the elastic half-space (Russian), Prikl Mekh (Appl Mech) **33**(5) 41-48 (1998), 2A247
Receptance behavior of railway track and subgrade, Arch Appl Mech **68**(7-8) 457-470 (Sep 1998), 3A183
Eigenfrequencies of a two-mass oscillator uniformly moving along a string on a viscoelastic foundation, J Sound Vib **218**(1) 103-116 (Nov 1998), 5A154
Use of nonlinear localization for isolating structures from earthquake-induced motions, Earthquake Eng Struct Dyn **28**(1) 21-36 (Jan 1999), 6A1502
Effects of local preload on the foundation stiffness and vertical vibration of railway track, J Sound Vib **219**(5) 881-904 (Feb 1999), 7A133
Dynamic analysis of multistep piles on Pasternak soil subjected to axial tip forces, J Sound Vib **219**(5) 771-783 (Feb 1999), 7A171
Finite-element model sensitivity in the vibration of partially embedded beams, Int J Numer Methods Eng **44**(4) 517-533 (Feb 1999), 7A172
Vertical vibration of an elastic circular plate on a fluid-saturated porous half space, Int J Eng Sci **37**(3) 379-393 (Feb 1999), 7A173
Displacements in an elastic half-space when a load moves along a beam lying on its surface, J Appl Math Mech **62**(5) 791-796 (1998), 8A175
Lateral vibrations of an axially compressed beam on an elastic half-space due to a moving lateral load, Eur J Mech A **18**(1) 147-158 (Jan-Feb 1999), 8A176
Low-frequency resonances in the dynamic interaction of an elastic solid with a semi-bounded medium, J Appl Math Mech **62**(5) 797-801 (1998), 8A177
Instability of vibrations of an oscillator moving along a beam on an elastic half-space, Eur J Mech A **18**(2) 331-349 (Mar-Apr 1999), 10A210
Kinematics simulation as a method of determining deviations of switch blade positions in turnouts, Arch Civil Eng **44**(3) 339-351 (1998), 10A211
Time domain inversion of a viscoelastically restrained Timoshenko beam, Inverse Prob **15**(2) 551-562 (Apr 1999), 10A212
Nonlinear vibrations of a beam on an elastic foundation, J Sound Vib **223**(3) 335-354 (Jun 1999), 11A195
Application of the FEM in dynamic analysis of steel frame foundations for rotary machines, Arch Civil Eng **44**(4) 391-427 (1998), 12A161
Dynamics of thin periodic plates resting on a periodically inhomogeneous Winkler foundation, Arch Appl Mech **69**(5) 345-356 (Jun 1999), 12A162

154P. Complex systems

Modal analyses and experiments for engine crankshafts, J Sound Vib **214**(3) 413-430 (Jul 1998), 1A143
Rational mode the degree of interaction in composite beams with flexible shear connectors, Mech Struct Machines **26**(2) 175-194 (1998), 1A144
Transmission of vibration through a coupled periodic structure, J Sound Vib **215**(1) 63-79 (Aug 1998), 2A248
Dynamic analysis of a mechanical airbag system sensor, J Sound Vib **217**(2) 283-296 (Oct 1998), 4A417
Exact solution for vibration analysis of rectangular cable networks with periodically distributed supports, J Sound Vib **218**(1) 29-44 (Nov 1998), 5A155
Imposing nodes to the normal modes of a linear elastic structure, J Sound Vib **219**(4) 669-687 (Jan 1999), 7A174
Novel approach to determine the frequency equations of combined dynamical systems, J Sound Vib **219**(4) 689-706 (Jan 1999), 7A175
Hybrid method for the vibration analysis of complex structural-acoustic systems, J Acoust Soc Am **105**(3) 1657-1671 (Mar 1999), 8A178
Study on the simulation of flexible link mechanics: Development of a reduction method and two-node element including large displacement, JSME Int J Ser C **42**(1) 180-187 (Mar 1999), 9A87
Interaction between slow and fast oscillations in an infinite dof linear system coupled to a nonlinear subsystem: Theory and experiment, J Appl Mech **66**(2) 448-459 (Jun 1999), 10A213

154Y. Computational techniques

Construction of free-free flexibility matrices as generalized stiffness inverses, Comput Struct **68**(4) 411-418 (Aug 1998), 1A170
Experimental and FE modal analyses of planar mechanisms with 3D geometries, J Mech Des **120**(3) 401-403 (Sep 1998), 1A171
Real modes of vibration and hybrid modal analysis, Comput Mech **21**(6) 493-511 (Jun 1998), 1A172
State-space identification of vibrating systems from multi-output measurements, Mech Syst Signal Processing **12**(4) 543-558 (Jul 1998), 1T354
Improved first-order approximation of eigenvalues and eigenvectors, AIAA J **36**(9) 1721-1727 (Sep 1998), 2A127
Design sensitivity metric for structural dynamic response, AIAA J **36**(9) 1686-1693 (Sep 1998), 2A182
Out-of-plane dynamic responses of non-circular curved beams by numerical Laplace transform, J Sound Vib **215**(3) 407-424 (Aug 1998), 2A201
Refined semianalytical solutions in the approximations of higher eigenvalues, Comput Struct **69**(1) 27-35 (Oct 1998), 2A249
Free vibration analysis of rectangular plates with variable thickness, J Sound Vib **216**(3) 379-397 (Sep 1998), 3A160
Vibro-acoustic analysis and identification of defects in rotating machinery - Part I: Theoretical model, J Sound Vib **216**(4) 533-570 (Oct 1998), 3A180
Integrable discretization of the Rayleigh quotient gradient system and the power method with a shift, J Comput Appl Math **96**(2) 77-90 (Sep 1998), 3A184
New tools for structural testing: Piezoelectric impact hammers and acceleration rate sensors, J Guidance Control Dyn **21**(5) 692-697 (Sep-Oct 1998), 3A853
Free vibration of thin, isotropic, open, conical panels, J Sound Vib **217**(2) 297-320 (Oct 1998), 4A166
Tension-induced conveyor belts: A FE free vibration study, J Vib and Control **4**(6) 673-696 (Nov 1998), 4A169
Modal acceleration method for computing frequency response function (Chinese), J Shanghai Jiaotong Univ **32**(7) 40-43 (Jul 1998), 4A181
Optimal inertia lumping from modal mass matrices for structural dynamics, Comput Methods Appl Mech Eng **163**(1-4) 171-191 (Sep 1998), 4A182
Structural modal testing with various actuators and sensors, Mech Syst Signal Processing **12**(5) 627-639 (Sep 1998), 4A183
Sensor and actuator placement for modal identification, Mech Syst Signal Processing **12**(5) 641-659 (Sep 1998), 4A360
Asymmetric, speed dependent tensioning of circular rotating disks, J Sound Vib **218**(1) 65-80 (Nov 1998), 5A130
Vibrations of cylindrical pipes and open shells, J Sound Vib **218**(3) 361-387 (Dec 1998), 5A139
Vibration studies of cross-ply laminated shear deformable circular cylinders on the basis of orthogonal polynomials, J Sound Vib **218**(2) 219-243 (Nov 1998), 5A143
Exact solution for vibration analysis of rectangular cable networks with periodically distributed supports, J Sound Vib **218**(1) 29-44 (Nov 1998), 5A155
Modern practice in stress and vibration analysis, Int J Mech Sci **41**(4-5) 373-594 (Apr-May 1999), 5A156
Dynamics, Acoustics and Simulations - 1998 (ASME, New York, 1998) 6N8
Dynamic analysis of shallow shells of rectangular base, J Sound Vib **218**(5) 861-882 (Dec 1998), 6A164
Vibration analysis of a nearly axisymmetric shell structure using a new finite ring element, J Sound Vib **219**(1) 35-50 (Jan 1999), 6A171
Free vibration of thick generally laminated quadrilateral plates having arbitrarily located point supports, J Aircraft **35**(6) 958-965 (Nov-Dec 1998), 6A172
Asymptotic modeling of rigid boundaries and connections in the Rayleigh-Ritz method, J Sound Vib **219**(2) 370-378 (Jan 1999), 6T186
New function transform technique for the solution of FEM dynamic equations, Comput Struct **70**(3) 345-355 (Feb 1999), 7A15
Use of FE and BE models for predicting the vibroacoustic behavior of layered structures, Adv Eng Software **30**(2) 133-139 (Feb 1999), 7A176
Simulation of bending-torsional-lateral vibrations of the railway wheelset-track system in the medium frequency range, Vehicle Syst Dyn **30**(6) 473-508 (Dec 1998), 7A190
Neural network solution of the inverse vibration problem, NDT&E Int **32**(2) 91-99 (Mar 1999), 7A393
New dynamic FE formulation for lateral free vibrations of Euler-Bernoulli spinning beams using trigonometric shape functions, J Sound Vib **220**(4) 601-624 (Mar 1999), 8A130
Simulation of the dynamic behavior of single and multi-stage geared systems with shape deviations and mounting errors by using a spectral method, J Sound Vib **220**(5) 861-903 (Mar 1999), 8A132
Natural frequencies of transverse vibrations of non-uniform circular and annular plates, J Sound Vib **220**(2) 225-249 (Feb 1999), 8A151
Three-dimensional vibration analysis of rectangular plates based on differential quadrature method, J Sound Vib **220**(4) 577-599 (Mar 1999), 8A152
Vibration analysis of discontinuous Mindlin plates by differential quadrature element method, J Vib Acoust **121**(2) 204-208 (Apr 1999), 8A154
LQR control of thin shell dynamics: Formulation and numerical implementation, J Intelligent Mat Syst Struct **9**(4) 301-320 (Apr 1998), 8A158
Discrete layer beam FE for the dynamic analysis of composite sandwich beams with integral damping layers, Comput Struct **70**(6) 647-666 (Mar 1999), 8A179
Improved subspace iteration method with shifting, Comput Struct **70**(6) 625-633 (Mar 1999), 8A180
Variable step Rosenbrock algorithm for transient response of damped structures, Proc Inst Mech Eng C **213**(C2) 191-198 (1999), 9A126
Optimization for vibration problems: Junction layout of a combined structure under oscillation, J Mech Des **121**(2) 188-194 (Jun 1999), 9A178
Optimal selection of interior points for applying discretized boundary conditions in DQ vibration analysis of beams and plates, J Sound Vib **222**(2) 239-257 (Apr 1999), 10A162
Theoretical analysis, numerical calculation and experimental measurement of transient elastic waves in strips subjected to dynamic loadings, Int J Solids Struct **36**(23) 3541-3564 (Aug 1999), 10A163
Reduced order modeling and vibration analysis of mistuned bladed disk assemblies with shrouds, J Eng Gas Turbines Power **121**(3) 515-522 (Jul 1999), 10A200
Adaptive h-version eigenfrequency analysis, Comput Struct **71**(5) 565-584 (Jun 1999), 10A214
Influence of lubrication on the dynamic behavior of ball bearings, J Sound Vib **222**(4) 579-596 (May 1999), 10A230
Free vibration of line supported rectangular plates using a set of static beam functions, J Sound Vib **223**(2) 231-245 (Jun 1999), 11A201
A posteriori error estimates in FE solution of structure vibration problems with applications to acoustical fluid-structure analysis, Comput Mech **23**(3) 231-239 (Apr 1999), 11A215
Dynamics experimental and analysis of a hard disk drive, J Vib and Control **5**(4) 535-557 (Jul 1999), 12A146
Computation of the time-history response of dynamic problems using the BEM and modal techniques, Int J Numer Methods Eng **45**(7) 841-864 (Jul 1999), 12A163
Analysis of the friction-induced self-excited vibration of a contact-recording head slider supported by a cantilever beam, J Info Storage Processing Syst **1**(1) 59-65 (Jan 1999), 12A458
Ritz vector approach for evaluating incabinet response spectra, Nucl Eng Des **190**(3) 255-272 (Jun 1999), 12A1536

154Z. Experimental techniques

Mitigation of 3D vibration of inclined sag cable using discrete oil dampers - II: Application, J Sound Vib **214**(4) 675-693 (Jul 1998), 1A149
Analytical and experimental modal analysis for operational validation and calibration of a miniature silicon sensor, J Sound Vib **214**(5) 903-913 (Jul 1998), 1A173
Laser interferometry for experimental modal analysis of jet-engine blades, Strojnicky Casopis **49**(3) 176-186 (1998), 1A1269
Limit cycle measurements from a cantilever beam attached to a rotating body, AIAA J **36**(8) 1540-1541 (Aug 1998), 2T198
Experimental Mechanics: Advances in Design, Testing and Analysis, Volumes 1 and 2 (Balkema, Rotterdam, Netherlands, 1998) 3N18
Remote identification of impact forces on loosely supported tubes - Part 1: Basic theory and experiments, J Sound Vib **215**(5) 1015-1041 (Sep 1998), 3A146

Vibro-acoustic analysis and identification of defects in rotating machinery - Part II: Experimental study, J Sound Vib **216**(4) 571-583 (Oct 1998), 3A181
Enhancement and modification of vibration signals of malfunction gearboxes (Chinese), J Xi'an Jiaotong Univ **32**(9) 72-75 (1998), 3A185
Holospectrum decomposition as a diagnostic tool for rotating machinery (Chinese), J Xi'an Jiaotong Univ **32**(7) 94-97 (1998), 3A186
Structural damage detection by a sensitivity and statistical-based method, J Sound Vib **216**(5) 791-808 (Oct 1998), 3A187
Free vibration of thin, isotropic, open, conical panels, J Sound Vib **217**(2) 297-320 (Oct 1998), 4A166
Structural modal testing with various actuators and sensors, Mech Syst Signal Processing **12**(5) 627-639 (Sep 1998), 4A183
Modal analysis of flexible beams with delayed resonator vibration absorber: Theory and experiments, J Sound Vib **218**(2) 307-331 (Nov 1998), 5A122
Numerical and experimental analysis of a continuous overhung rotor undergoing vibro-impacts, Int J Non-Linear Mech **34**(3) 415-435 (May 1999), 5A150
Exact adjustment of dynamic forces in presence of nonlinear feedback and singularity - Theory and algorithm, J Sound Vib **218**(1) 1-27 (Nov 1998), 5A157
Experimental validation of reduction methods for nonlinear vibrations of distributed-parameter systems: Analysis of a buckled beam, Nonlinear Dyn **17**(2) 95-117 (Oct 1998), 5A561
Identification of the impact location on a plate using wavelets, Mech Syst Signal Processing **12**(6) 783-795 (Nov 1998), 6A160
Development of the experimental spatial matrix identification method: Theory and basic verification with a frame structure, J Sound Vib **219**(1) 5-22 (Jan 1999), 6A181
Force frequency shifting for structural excitation, J Sound Vib **219**(2) 223-237 (Jan 1999), 6A187
Modal filtering for flexible beams using optical fibers, J Acoust Soc Am **105**(1) 211-218 (Jan 1999), 6A188
Modal sensing of circular cylindrical shells using segmented piezoelectric elements, Smart Mat Struct **8**(1) 125-135 (Feb 1999), 8A181
Vibration reduction of flexible manipulators using torque wheels, Mech Struct Machines **27**(1) 1-22 (1999), 8A431
Calibration and assessment of moment actuator, Acta Mech Solida Sinica **12**(1) 91-94 (1999), 9A179
Research on real-time error correction for non-stationary dynamic measurement based on standard value interpolation, J Chinese Soc Mech Eng **20**(1) 11-19 (Feb 1999), 9A180
Strain-based rotational mode measurement in a beam, J Sound Vib **222**(2) 225-237 (Apr 1999), 10A215
Vibration monitoring of large generator stator end-winding (French), Rev Francaise Mec **0**(1) 43-47 (Mar 1999), 10T216
Model testing, Mech Syst Signal Processing **13**(2) 183-366 (Mar 1999), 10A1006
Effect of infinite impedance testing on equipment supported by a structure of a comparable mass, J Sound Vib **223**(5) 821-833 (Jun 1999), 12T164
Vibration acceleration control of an inverter-fed electrodynamic shaker, IEEE/ASME Trans Mechatronics **4**(1) 60-70 (Mar 1999), 12T486

156. VIBRATIONS (STRUCTURES)

156B. Buildings and foundations

Optimal damping between two adjacent elastic structures, Earthquake Eng Struct Dyn **27**(7) 649-659 (Jul 1998), 1A134
Wind-induced coupled translational-torsional motion of tall buildings, Wind Struct **1**(1) 43-57 (Mar 1998), 1A174
Dynamic analysis on structures base-isolated by a ball system with restoring property, Earthquake Eng Struct Dyn **27**(8) 773-791 (Aug 1998), 1A189
Modeling aspects of structures isolated with the frictional pendulum system, Earthquake Eng Struct Dyn **27**(8) 845-867 (Aug 1998), 1A190
Dynamic wind effects: A comparative study of provisions in codes and standards with wind tunnel data, Wind Struct **1**(1) 77-109 (Mar 1998), 1A1010
Control of structural seismic response by self-recurrent neural network, Earthquake Eng Struct Dyn **27**(7) 641-648 (Jul 1998), 1A1446
Ductility reduction factor in the seismic design of buildings, Earthquake Eng Struct Dyn **27**(7) 749-769 (Jul 1998), 1A1447
Evaluation of structural walls designed according to Eurocode 8 and SIA 160, Earthquake Eng Struct Dyn **27**(8) 793-809 (Aug 1998), 1T1448
Dynamic response of a hemispherical foundation embedded in an elastic half-space, J Pressure Vessel Tech **120**(4) 343-348 (Nov 1998), 2A250
Estimation of required separations between adjacent structures under spatial ground motions, J Earthquake Eng **2**(2) 197-215 (Apr 1998), 2A251
Amplification factors for equipment design subjected to seismic loading, J Pressure Vessel Tech **120**(4) 334-342 (Nov 1998), 2A1466
Prediction of the fundamental traniverse natural frequency of tall building structures using maximum static deflection, J Sound Vib **216**(5) 911-915 (Oct 1998), 3T188
Torsional mechanisms in ductile building systems, Earthquake Eng Struct Dyn **27**(10) 1101-1121 (Oct 1998), 3A189
Dynamic response of damper-connected adjacent buildings under earthquake excitation, Eng Struct **21**(2) 135-148 (Feb 1999), 4A184
Spectral density functions of wind pressures on various low building roof geometries, Wind Struct **1**(3) 203-223 (Sep 1998), 5A158
Memory-matrix-based identification methodology for structural and mechanical systems, Earthquake Eng Struct Dyn **27**(12) 1465-1481 (Dec 1998), 5A325
Effects of foundation embedment during building-soil interaction, Earthquake Eng Struct Dyn **27**(12) 1523-1540 (Dec 1998), 5A1478
Seismic respome of steel frame buildings to near-source ground motions, Earthquake Eng Struct Dyn **27**(12) 1445-1464 (Dec 1998), 5A1488
Role of damping in seismic isolation, Earthquake Eng Struct Dyn **28**(1) 3-20 (Jan 1999), 6A136
Analysis of vibration reduction in composite building (Chinese), J Huazhong Univ Sci Tech **26**(9) 93-96 (Sep 1998), 6A189
Estimating turbogenerator foundation parameters, Proc Inst Mech Eng C **212**(C8) 653-665 (1998), 6A190
Modeling of pile wave barriers by effective trenches and their screening effectiveness, Soil Dyn Earthquake Eng **18**(1) 1-10 (Jan 1998), 6A191
System identification of linear MDOF structures under ambient excitation, Earthquake Eng Struct Dyn **28**(1) 61-77 (Jan 1999), 6A192
Model vibration tests to verify the seismic isolation effect for rectangular tunnel (Japanese), Proc JSCE **605**(I-45) 203-215 (Oct 1998), 6A1494
Use of nonlinear localization for isolating structures from earthquake-induced motions, Earthquake Eng Struct Dyn **28**(1) 21-36 (Jan 1999), 6A1502
Active control of MDOF structures with supplemental electrorheological fluid dampers, Earthquake Eng Struct Dyn **28**(2) 143-156 (Feb 1999), 7A122
Optimal placement of DVFC controllers on buildings subjected to earthquake loading, Earthquake Eng Struct Dyn **28**(2) 127-141 (Feb 1999), 7A177
Seismic response and design of RC structures with plan-eccentric masonry infills, Earthquake Eng Struct Dyn **28**(2) 173-191 (Feb 1999), 7A178
Aseismic roof isolation system: Analytic and shake table studies, Earthquake Eng Struct Dyn **28**(3) 217-234 (Mar 1999), 8A182
Experimental evaluation of the modal characteristics of a framed building and adjustment of the mathematical model (French), Mat Struct **32**(216) 117-124 (Mar 1999), 8A183
Free vibration analysis of shear-type buildings, Adv in Struct Eng **2**(3) 163-172 (May 1999), 9A181
Optimal design of wind-induced vibration control of tall buildings and high-rise structures, Wind Struct **2**(1) 69-83 (Mar 1999), 9A182
Real-time on-line test for MDOF systems, Earthquake Eng Struct Dyn **28**(4) 393-420 (Apr 1999), 9A183
Spatial ground motion effect on relative displacement of adjacent building structures, Earthquake Eng Struct Dyn **28**(4) 333-349 (Apr 1999), 9A184
Using neural networks to model and predict amplitude dependent damping in buildings, Wind Struct **2**(1) 25-40 (Mar 1999), 9T185
Dynamic response analysis of the machine foundations on a nonhomogeneous soil layer, Comput Geotech **24**(2) 141-153 (1999), 9A755
Contribution to optimizing the power train suspension, J Low Frequency Noise Vib **17**(4) 181-189 (1998), 10A217
Estimation of inelastic deformation demands in multistory RC frame buildings, Earthquake Eng Struct Dyn **28**(5) 501-528 (May 1999), 10A218
Effects of structural walls on the elastic-plastic earthquake responses of frame-wall buildings, Earthquake Eng Struct Dyn **28**(5) 479-500 (May 1999), 10A1554
Non-monotonic optimal damper placement via steepest direction search, Earthquake Eng Struct Dyn **28**(6) 655-670 (Jun 1999), 11A180
Experimental investigation of adjacent buildings connected by fluid damper, Earthquake Eng Struct Dyn **28**(6) 609-631 (Jun 1999), 11A216
Structural Dynamics: Eurodyn '99, Volume 2 (Balkema, Rotterdam, Netherlands, 1999) 12N9
Angstrom Laboratory: A vibration free building on loose sand, J Low Frequency Noise Vib **18**(1) 9-12 (1999), 12T165
Probabilistic characteristics of damping in buildings, Wind Struct **2**(2) 127-131 (Jun 1999), 12T166

156C. Towers and chimneys

Reliability of microwave towers against extreme winds, Struct Eng and Mech **6**(5) 555-569 (Jul 1998), 1A980
Vibration control of bridge towers using a lumped modeling approach, J Vib Acoust **121**(1) 95-100 (Jan 1999), 4A185
Identification of a dynamic system using ambient vibration measurements, J Appl Mech **65**(4) 1010-1021 (Dec 1998), 5A176

156D. Bridges

Flexibility-based linear dynamic analysis of complex structures with curved-3D members, Earthquake Eng Struct Dyn **27**(7) 731-747 (Jul 1998), 1A166
Buffeting analysis of long span bridges: A new algorithm, Comput Struct **68**(4) 303-313 (Aug 1998), 1A175
Vibration control of cable-stayed bridges - Part 1: Modeling issues, Earthquake Eng Struct Dyn **27**(8) 811-824 (Aug 1998), 1A176
Vibration control of cable-stayed bridges - Part 2: Control analyses, Earthquake Eng Struct Dyn **27**(8) 825-843 (Aug 1998), 1A177
Vibration of horizontally curved box girder bridges due to vehicles, Comput Struct **68**(5) 513-528 (Sep 1998), 1A178
Wind resistant properties of Tiger Gate suspension bridge, Wind Struct **1**(1) 67-75 (Mar 1998), 1A179
Vibration of highway steel bridges with longitudinal grades, Comput Struct **69**(2) 235-245 (Oct 1998), 2A252
Elastically supported cantilever beam subjected to nonstationary seismic excitation, Earthquake Eng Struct Dyn **27**(9) 977-995 (Sep 1998), 2A1468
Dynamic interaction between the vehicle and simply supported curved bridge deck, Comput Methods Appl Mech Eng **162**(1-4) 125-131 (Aug 1998), 3A190
Stochastic nonlinear vibrations of highway suspension bridge under inertial sprung moving load, J Sound Vib **216**(3) 507-519 (Sep 1998), 3A191
Seismic response analysis of bridges isolated with friction pendulum bearings, Earthquake Eng Struct Dyn **27**(10) 1069-1093 (Oct 1998), 3A1469
Mode interactions for a weakly nonlinear beam equation, Nonlinear Dyn **17**(1) 23-40 (Sep 1998), 4A142
Fuzzy logic control of bridge structures using intelligent semi-active seismic isolation systems, Earthquake Eng Struct Dyn **28**(1) 37-60 (Jan 1999), 6A127
Dynamic analysis of 19-span continuous space frame bridge with lead rubber bearings based on vibration tests (Japanese), Proc JSCE **605**(I-45) 49-60 (Oct 1998), 6T193
Inertial measurement method for bridge dynamic deflection based on time-limited signal recovery technique (Chinese), J Tsinghua Univ Sci Tech **38**(8) 19-21 (Aug 1998), 6A194
Sensitivities of natural modes of suspension bridges to structural parameters, J Tsinghua Univ Sci Tech **38**(12) 48-51 (Dec 1998), 6A195
Vibration characteristics and dynamic increment factor of 2 span continuous PC cable-stayed bridge under moving vehicles (Japanese), Proc JSCE **605**(I-45) 37-47 (Oct 1998), 6A196
Seismic design of suspension bridges superstructures, J Tsinghua Univ Sci Tech **38**(12) 52-56 (Dec 1998), 6A1498
Finite Element analysis of an elastic beam structure subjected to a moving distributed mass train, Mech Syst Signal Processing **13**(1) 31-51 (Jan 1999), 7A13
Field test of an intelligent stiffener for bridges at the I-35 Walnut Creek bridge, Earthquake Eng Struct Dyn **28**(2) 109-126 (Feb 1999), 7A124
Interpretive method for moving force identification, J Sound Vib **219**(3) 503-524 (Jan 1999), 7A179
Stability analysis of wind-induced torsional motion of slender bridges, Struct Safety **20**(4) 379-389 (1998), 7A258
Graphical technique for the flutter analysis of flexible bridge, Wind Struct **2**(1) 41-49 (Mar 1999), 9A296
Responses of near-optimal, continuous horizontally curved beams to transit loads, J Sound Vib **222**(4) 565-578 (May 1999), 10A175
Effects of engineering geological condition on response of suspension bridges, Soil Dyn Earthquake Eng **18**(4) 297-304 (Jun 1999), 10A1553
Optimization of cable-stayed bridges subjected to earthquakes with nonlinear behavior, Eng Optim **31**(4) 457-478 (Mar 1999), 10A1556
Seismic analysis and design of rigid bridge abutments considering rotation and sliding incorporating nonlinear soil behavior, Soil Dyn Earthquake Eng **18**(4) 247-277 (Jun 1999), 10A1557
Separation between moving vehicles and bridge, J Sound Vib **222**(5) 781-801 (May 1999), 11A217
Structural Dynamics: Eurodyn '99, Volume 2 (Balkema, Rotterdam, Netherlands, 1999) 12N9
Dynamic response of a rotating beam subjected to a random moving load, J Sound Vib **223**(5) 741-758 (Jun 1999), 12A134
Effect of humps on the dynamic response of single-span bridges, J Vib and Control **5**(4) 507-517 (Jul 1999), 12A167
Experimental analysis of aerodynamic stability of stress-ribbon footbridges, Wind Struct **2**(2) 95-104 (Jun 1999), 12A261
Wind tunnel test research on aerodynamic means of the ZG Bridge, Wind Struct **2**(2) 119-125 (Jun 1999), 12A264

156E. Hydraulic structures

Offshore technology in focus, Appl Ocean Res **20**(1-2) 3-118 (Feb-Apr 1998), 1A293
Industrial applications of fluid-structure interaction and flow-induced noise research, J Fluids Struct **12**(4) 395-507 (Mau 1998), 1A298
Simulation analysis of dynamic water pressures and displacements measured on forced vibration test of arch dam (Japanese), Proc JSCE **605**(I-45) 15-28 (Oct 1998), 6A1053
Low-order dynamic model for flexible hydraulic cranes, J Syst Control Eng **213**(I1) 11-22 (1999), 9A186

156F. Marine structures

Ice-induced nonlinear vibration of an offshore platform, J Sound Vib **214**(3) 431-442 (Jul 1998), 1A180
Nonlinear stochastic dynamics of tension leg platforms, J Sound Vib **220**(1) 27-65 (Feb 1999), 7A180
Analysis and performance of offshore platforms in hurricanes, Wind Struct **2**(1) 1-23 (Mar 1999), 9A187
Adaptive control of flow-induced oscillations including vortex effects, Int J Non-Linear Mech **34**(5) 853-868 (Sep 1999), 10A219
Response prediction of a TLP in cyclonic storm conditions, Int J Offshore Polar Eng **8**(1) 58-65 (Mar 1998), 10A220
Ringing of ISSC TLP due to laboratory storm seas, Int J Offshore Polar Eng **8**(2) 81-89 (Jun 1998), 10A221
Wavelet analysis of the transient response of spar platforms, Int J Offshore Polar Eng **8**(4) 270-272 (Dec 1998), 10T222
Vortex-excited vibration of a vertical circular cylinder in waves, Int J Offshore Polar Eng **8**(1) 66-73 (Mar 1998), 10A310
Precise and efficient computation of complex structures with TMD devices, J Sound Vib **223**(5) 693-701 (Jun 1999), 12A129

156G. Vehicles (incl locomotives)

Vehicle steering intervention through differential braking, J Dyn Syst Meas Control **120**(3) 314-321 (Sep 1998), 1A434
Development of an integrated suspension control technology for passenger trains, Proc Inst Mech Eng F **212**(F1) 33-42 (1998), 2A253
Research trends on riding comfort evaluation in Japan, Proc Inst Mech Eng F **212**(F1) 61-72 (1998), 2A254
Two-dof ambulance stretcher suspension - Part 2: Simulation of system performance with capillary and orifice pneumatic damping, Proc Inst Mech Eng D **212**(D3) 227-240 (1998), 2A255
Active roll-moment control strategy for narrow tilting commuter vehicles, Vehicle Syst Dyn **29**(5) 277-307 (May 1998), 2A523
Control system studies of an active anti-roll bar tilt system for railway vehicles, Proc Inst Mech Eng F **212**(F1) 43-60 (1998), 2A526
Experimental study of a prototype active anti-roll suspension system, Vehicle Syst Dyn **29**(5) 309-329 (May 1998), 2A528
Proceedings of the 15th IAVSD Symposium held in Budapest, Hungary, August 25-29, 1997, Vehicle Syst Dyn **29**(S) 5-788 (1998), 3A419
Computational procedure for nonlinear dynamic analysis of vehicles, Vehicle Syst Dyn **30**(1) 37-54 (Jul 1998), 4T186
Computational vibration analysis of vehicle shimmy by a power-work method, Vehicle Syst Dyn **29**(6) 341-364 (Jun 1998), 4A187
Dynamic simulation of Taipei EMU train, Vehicle Syst Dyn **30**(2) 143-167 (Aug 1998), 4A188
Effect of system nonlinearities on locomotive bogie hunting stability, Vehicle Syst Dyn **29**(6) 365-384 (Jun 1998), 4A189
Front-rear interaction of a pitch-plane truck model, Vehicle Syst Dyn **30**(2) 117-141 (Aug 1998), 4A190
Improving the performance of automotive semi-active suspension systems through road preview, J Sound Vib **217**(1) 163-182 (Oct 1998), 4A191

Time domain model of the vertical dynamics of a railway track up to 5 kHz, Vehicle Syst Dyn **30**(1) 1-15 (Jul 1998), 4A192
Two-dof ambulance stretcher suspension - Part 3: Laboratory and road test performance, Proc Inst Mech Eng D **212**(D5) 401-407 (1998), 4A193
Validation of a nonlinear automotive seat cushion vibration model, Vehicle Syst Dyn **30**(1) 55-68 (Jul 1998), 4A194
Dynamic parameter estimation of a MacPherson strut suspension, Vehicle Syst Dyn **30**(2) 169-184 (Aug 1998), 4A352
Identification of lateral dynamics and parameter estimation of heavy vehicles, Mech Syst Signal Processing **12**(5) 611-626 (Sep 1998), 4A355
High speed railway: Collecting pantographs active control and overhead lines diagnostic solutions, Vehicle Syst Dyn **30**(1) 69-84 (Jul 1998), 4A400
Physically realizable feedback controls for a fully active preview suspension applied to a half-car model, Vehicle Syst Dyn **30**(1) 17-35 (Jul 1998), 4A402
Validation of the harshness problem of automotive active suspensions, Vehicle Syst Dyn **30**(2) 89-115 (Aug 1998), 4A405
Finite element implementation of the microplane theory for simulating a rigid concrete pavement-vehicle interaction, Mech Struct Machines **26**(4) 377-400 (1998), 5A22
Computer simulation of rail vehicle dynamics, Vehicle Syst Dyn **30**(3-4) 197-313 (Sep 1998), 5A159
Dynamical investigation of railway vehicles on a curved track, Eur J Mech A **17**(6) 1001-1020 (Nov-Dec 1998), 5A160
Wheel-rail impacts at a railway turnout crossing, Proc Inst Mech Eng F **212**(F2) 123-134 (1998), 5A161
Intelligent cruise control system design based on a traffic flow specification, Vehicle Syst Dyn **30**(5) 319-344 (Nov 1998), 5A383
Optimum design of a passive suspension system of a vehicle subjected to actual random road excitations, J Sound Vib **219**(2) 193-205 (Jan 1999), 6A117
Chain vibration and dynamic stress in 3D multibody tracked vehicles, Multibody Syst Dyn **2**(3) 277-316 (Sep 1998), 6A197
Modeling, identification, and real-time control to bucket hydraulic system for a wheel type loader earth moving equipment, Mechatronics **8**(8) 863-885 (Dec 1998), 6A406
Verification of a wheeled mobile robot dynamic model and control ramifications, J Dyn Syst Meas Control **121**(1) 58-63 (Mar 1999), 6A410
Dynamic stiffness of a railway overhead wire system and its effect on pantograph-catenary system dynamics, J Sound Vib **219**(3) 483-502 (Jan 1999), 7A144
Additional vehicle's wheel rotation during crossing road unevenness, Heavy Vehicle Syst **5**(3-4) 323-340 (1998), 7T181
Assessment of the ride quality of a truckfull trailer combination, Heavy Vehicle Syst **5**(3-4) 208-235 (1998), 7A182
Basic analytical study of pantograph-catenary system dynamics, Vehicle Syst Dyn **30**(6) 443-456 (Dec 1998), 7A183
Dynamic rollover threshold of articulated freight vehicles, Heavy Vehicle Syst **5**(3-4) 300-322 (1998), 7A184
Dynamics of a wheelset on roller rig, Vehicle Syst Dyn **30**(6) 409-430 (Dec 1998), 7A185
Investigation of the dynamic performance of the M939 truck-M198 medium towed howitzer combination, Heavy Vehicle Syst **5**(3-4) 341-358 (1998), 7T186
Nonlinear yaw-roll-pitch model of the dynamics of log hauling trucks, Heavy Vehicle Syst **5**(3-4) 181-207 (1998), 7A187
Ride behavior of trucks transporting liquids, Heavy Vehicle Syst **5**(3-4) 261-276 (1998), 7A188
Rotational resistance behavior and field testing of two-axle bogie design, Vehicle Syst Dyn **31**(1) 47-63 (Jan 1999), 7A189
Simulation of bending-torsional-lateral vibrations of the railway wheelset-track system in the medium frequency range, Vehicle Syst Dyn **30**(6) 473-508 (Dec 1998), 7A190
State observer design for an adaptive vehicle suspension, Vehicle Syst Dyn **30**(6) 457-471 (Dec 1998), 7A191
Truck cab suspension design: Optimization and vibration control, Heavy Vehicle Syst **5**(3-4) 236-260 (1998), 7A192
Experimental characterization of damping force in shock absorbers with constant velocity excitation, Vehicle Syst Dyn **30**(6) 431-442 (Dec 1998), 7A201
Active control of a truck full-trailer's rearward amplification, Heavy Vehicle Syst **5**(3-4) 277-299 (1998), 7A374
Application of nonlinear optimization methods to input shaping of the hoist drive of an off-shore crane, Nonlinear Dyn **17**(4) 369-386 (Dec 1998), 7A375
Automatic vehicle following with integrated throttle and brake control, Int J Control **72**(1) 75-83 (Jan 1999), 7A376
Estimation of the nonlinear suspension tire cornering forces from experimental road test data, Vehicle Syst Dyn **31**(1) 23-34 (Jan 1999), 7A873
Impact loads due to wheel flats and shells, Vehicle Syst Dyn **31**(1) 1-22 (Jan 1999), 7A874
Multi-spoke, three plane tire model for simulation of transient behavior, Vehicle Syst Dyn **31**(1) 35-45 (Jan 1999), 7A875
Prediction of the performance of off-road tires, Heavy Vehicle Syst **5**(3-4) 359-378 (1998), 7A876
Development of an automotive joint model using an analytically based formulation, J Sound Vib **220**(4) 625-640 (Mar 1999), 8A184
Modal analysis and model updating studies on a three-wheeler auto, J Vib and Control **5**(2) 253-276 (Mar 1999), 8A185
Isolation properties of semiactive dampers, J Vib and Control **5**(2) 217-232 (Mar 1999), 8A197
Control for tractor-semitrailer vehicle systems: A Lyapunov minimax approach, Dyn Control **9**(1) 21-37 (Jan 1999), 8A421
Railway wheel squeal: Squeal of disk subjected to random excitation, JSME Int J Ser C **41**(3) 608-615 (Sep 1998), 9A115
Dynamics and stability of a wheelset-track interaction modeled as nonlinear continuous system, Machine Dyn Prob **20** 23-34 (1998), 9A188
Longitudinal and transversal vibration of railway overhead contact system, Machine Dyn Prob **20** 181-192 (1998), 9A189
Modeling of a railway wheelset as a rotating elastic multibody system, Machine Dyn Prob **20** 209-219 (1998), 9T190
Robust adaptive control of an active vehicle suspension system, Proc Inst Mech Eng D **213**(D1) 1-17 (1999), 9A191
Stability behavior of a railway bogie, Machine Dyn Prob **20** 123-138 (1998), 9T192
Stability of a fast-moving wheelset: The role of internal friction, Machine Dyn Prob **20** 221-229 (1998), 9A193
Steady state dynamics of railway tracks modeled continuous periodic structures, Machine Dyn Prob **20** 149-166 (1998), 9A194
Study on curving characteristic of vehicles with nonlinear air suspension, JSME Int J Ser C **41**(3) 668-673 (Sep 1998), 9A195
Self-excited oscillations of disk brakes, Machine Dyn Prob **20** 231-243 (1998), 9T1042
A parametric study of the lateral stability of a rail bogie on a roller rig, Proc Inst Mech Eng F **213**(F1) 39-47 (1999), 10A121
Idealized steady state interaction between railway vehicle and track, Proc Inst Mech Eng F **213**(F1) 15-29 (1999), 10A223
Nonlinear oscillations and chaos in a railway vehicle system, Chinese J Mech Eng **11**(3) 231-238 (Sep 1998), 10A224
Numerical studies on railway vehicle response to transition curves with regard to their different shape, Arch Civil Eng **44**(2) 151-181 (1998), 10A225
Optimization of damping characteristics in vehicle dynamics, Eng Optim **31**(4) 435-455 (Mar 1999), 10A226
Performance of a rail car equipped with independently rotating wheelsets have yaw control, Proc Inst Mech Eng F **213**(F1) 31-38 (1999), 10A227
Vibration attenuating characteristics of air filled seat cushions, J Sound Vib **222**(2) 333-340 (Apr 1999), 10T228
Hierarchical control of hydraulic active suspensions of a fast all-terrain military vehicle, J Sound Vib **222**(5) 723-752 (May 1999), 11A218
Structural Dynamics: Eurodyn '99, Volume 2 (Balkema, Rotterdam, Netherlands, 1999) 12N9
Dynamic effects of conventional freight car running over a dipped-joint, Vehicle Syst Dyn **31**(2) 95-111 (Feb 1999), 12A168
General method for the evaluation of vehicle maneuverability with special emphasis on motorcycles, Vehicle Syst Dyn **31**(2) 113-135 (Feb 1999), 12A427
Pragmatic tire model for short wavelength side slip variations, Vehicle Syst Dyn **31**(2) 65-94 (Feb 1999), 12A951

156H. Ships

Computation of design load and motion for floating structures navigating in waves (Chinese), J Dalian Univ Tech **38**(4) 457-462 (Jul 1998), 1A181
New FE for static and vibrational analysis of double-hull structures, J Dalian Univ Tech **38**(4) 419-425 (Jul 1998), 1A182
Study of calculation of natural frequency and response of shiphull vibration in waves (Chinese), J Dalian Univ Tech **38**(4) 445-449 (Jul 1998), 1A183
Transient response of stiffened composite submersible hull subjected to underwater explosive shock, Composite Struct **41**(1) 27-37 (Jan 1998), 1A995
Design of automatic thruster assisted position mooring systems for ships, Model Ident Control **19**(2) 61-75 (Apr 1998), 3A410
Bifurcation and resonance of a mathematical model for nonlinear motion of a flooded ship in waves, J Sound Vib **220**(1) 155-170 (Feb 1999), 7A193
Numerical calculation of hydrodynamic impulsive loading in structural design of high-speed ship (Chinese), J Shanghai Jiaotong Univ **32**(11) 30-33 (Nov 1998), 7A194
Pseudo-shakedown in structural mechanics of ships (Chinese), J Shanghai Jiaotong Univ **32**(11) 49-53 (Nov 1998), 7A804
Hybrid modeling, simulation and torque control of a marine propulsion system, J Syst Control Eng **213**(I1) 1-10 (1999), 9A1258
Impact of stiffness on the response of a multimodule mobile offshore base, Int J Offshore Polar Eng **9**(2) 126-133 (Jun 1999), 12A169

156I. Aircraft

Structural optimization for vibratory loads reduction of composite helicopter rotor blades with advanced geometry tips, J Am Helicopter Soc **43**(3) 246-256 (Jul 1998), 2A241
Comparison of calculated vibratory rotor hub loads with experimental data, J Am Helicopter Soc **43**(4) 312-318 (Oct 1998), 4A195
Control of the F-14 aircraft lateral-directional axis during powered approach, J Guidance Control Dyn **21**(6) 899-908 (Nov-Dec 1998), 5T363
Applied active control for a nonlinear aeroelastic structure, J Guidance Control Dyn **21**(6) 838-845 (Nov-Dec 1998), 5A380
Output feedback variable structure adaptive control of an aeroelastic system, J Guidance Control Dyn **21**(6) 830-837 (Nov-Dec 1998), 5A384
Wavelet-processed flight data for robust aeroservoelastic stability margins, J Guidance Control Dyn **21**(6) 823-829 (Nov-Dec 1998), 5T1113
Shimmy vibration analysis of aircraft landing gears, J Vib and Control **5**(1) 45-56 (Jan 1999), 6T198
Trailing edge flap activated by a piezo-induced bending-torsion coupled beam, J Am Helicopter Soc **44**(1) 3-15 (Jan 1999), 7A195
Autonomous maneuver tracking for self-piloted vehicles, J Guidance Control Dyn **22**(1) 58-67 (Jan-Feb 1999), 7A364
Uncertainty modeling for multivariable-control robustness analysis of elastic high-speed vehicles, J Guidance Control Dyn **22**(1) 87-95 (Jan-Feb 1999), 7T390
Helicopter blade response and aeromechanical stability with a magnetorheological fluid based lag damper, J Intelligent Mat Syst Struct **9**(4) 272-282 (Apr 1998), 8A1227
Dynamics of systems that include wings in autorotation, J Dyn Syst Meas Control **121**(2) 248-254 (Jun 1999), 12A170

156J. Spacecraft, spacestations

Analytical criterion for chaotic dynamics in flexible satellites with nonlinear controller damping, J Guidance Control Dyn **21**(4) 558-565 (Jul-Aug 1998), 1A112
Multibody effect on nutational dynamics of spin-stabilized satellites with fuel sloshing, J Guidance Control Dyn **21**(4) 566-571 (Jul-Aug 1998), 1A184
Thermally induced attitude dynamics of a spacecraft with a flexible appendage, J Guidance Control Dyn **21**(4) 581-587 (Jul-Aug 1998), 1A416
Digitally redesigned pulse-width modulation spacecraft control, J Guidance Control Dyn **21**(4) 529-534 (Jul-Aug 1998), 1A425
Adaptive Structures: Dynamics and Control (Wiley, New York, 1998) 3R13
Robust model reduction for a flexible spacecraft, J Guidance Control Dyn **21**(5) 809-812 (Sep-Oct 1998), 3T192
Vibration parameters identification in a spacecraft subjected to active vibration damping, Mechatronics **8**(6) 691-705 (Sep 1998), 3A197
Time-optimal spin-up maneuvers for flexible spacecraft, J Guidance Control Dyn **21**(5) 806-808 (Sep-Oct 1998), 3T277
Adaptive asymptotic tracking of spacecraft attitude motion with inertia matrix identification, J Guidance Control Dyn **21**(5) 684-691 (Sep-Oct 1998), 3A402
Torque shaping using trigonometric series expansion for slewing of flexible structures, J Guidance Control Dyn **21**(5) 698-703 (Sep-Oct 1998), 3A407
Control of flexible structures using GPS: Methods and experimental results, J Guidance Control Dyn **21**(5) 673-683 (Sep-Oct 1998), 3A409
Comparison study of subspace identification methods applied to flexible structures, Mech Syst Signal Processing **12**(5) 679-692 (Sep 1998), 4T351
Exact controllability and boundary stabilization of torsional vibrations of an internally damped flexible space structure, J Optim Theory Appl **99**(2) 423-442 (Nov 1998), 5T316
Guidance strategy for solid propelled launchers, J Guidance Control Dyn **21**(6) 1006-1009 (Nov-Dec 1998), 5T368
Experimental evaluation of the torque-shaping method for slew maneuver of flexible space structures, J Guidance Control Dyn **21**(6) 817-822 (Nov-Dec 1998), 5A382
Passive control of displaced solar sail orbits, J Guidance Control Dyn **21**(6) 975-982 (Nov-Dec 1998), 5T385
Control of chaotic motion in a spinning spacecraft with a circumferential nutational damper, Nonlinear Dyn **17**(3) 269-284 (Nov 1998), 6A106
Independent analysis of the space station node modal test data, J Guidance Control Dyn **22**(1) 22-27 (Jan-Feb 1999), 7T381
Synchronized formation rotation and attitude control of multiple free-flying spacecraft, J Guidance Control Dyn **22**(1) 28-35 (Jan-Feb 1999), 7A389
Asymmetric body spinning motion with energy dissipation and constant body-fixed torques, J Guidance Control Dyn **22**(2) 322-328 (Mar-Apr 1999), 8T90
On-orbit closed-loop control results for the Middeck Active Control Experiment, J Guidance Control Dyn **22**(2) 267-277 (Mar-Apr 1999), 8T186
Closed-form methods for generating on-off commands for undamped flexible spacecraft, J Guidance Control Dyn **22**(2) 378-382 (Mar-Apr 1999), 8T396
Resonant capture and separatrix crossing in dual-spin spacecraft, Nonlinear Dyn **18**(2) 159-184 (Feb 1999), 9T100
Simplified method of analysis of structural vibrations of asymmetric rockets, JSME Int J Ser C **41**(4) 695-703 (Dec 1998), 9A196
Spacecraft vibration reduction using pulse-width pulse-frequency modulated input shaper, J Guidance Control Dyn **22**(3) 433-440 (May-Jun 1999), 11A219
Vibration confinement in a generic launch vehicle, J Guidance Control Dyn **22**(3) 500-502 (May-Jun 1999), 11T392
Modeling and control of a gravity gradient stabilized satellite, Model Ident Control **20**(1) 3-26 (Jan 1999), 12A422

156K. Machine elements

Sensitivity and robustness of mechanism balancing, Mech Machine Theory **33**(7) 1045-1054 (Oct 1998), 1A1060
Nonconservative stability of a friction loaded disk, J Vib Acoust **120**(4) 922-929 (Oct 1998), 2A240
Analysis of ball bearing vibrations caused by outer race waviness, J Vib Acoust **120**(4) 901-908 (Oct 1998), 2A256
Coupled lateral-torsional vibration of a gear-pair system supported by a squeeze film damper, J Vib Acoust **120**(4) 860-867 (Oct 1998), 2A257
Resonance under chaotic oscillations of discrete dynamic systems with piecewise-linear elastic characteristics (Russian), Prikl Mekh (Appl Mech) **33**(7) 84-88 (1997), 2A258
Stochastic model on a rattling system, J Sound Vib **215**(3) 439-453 (Aug 1998), 2A259
Study on regenerative chatter vibration in ball end milling - 1st Report: Theoretical analysis of chatter stability limit, J Japan Soc Precision Eng **64**(7) 1047-1051 (Jul 1998), 2A260
Theory versus experiment for the effects of pressure ratio on the performance of an orifice-compensated hybrid bearing, J Vib Acoust **120**(4) 930-936 (Oct 1998), 2A261
Vibration transmission through self-aligning (spherical) rolling element bearings: Theory and experiment, J Sound Vib **215**(5) 997-1014 (Sep 1998), 3A193
Effect of two-to-one internal resonances in a nonlinearly restrained fluid valve, J Vib Acoust **121**(1) 59-63 (Jan 1999), 4A111
Optimum placement of bolts in structures based on dynamic shear, J Sound Vib **217**(2) 396-404 (Oct 1998), 4T145
Chatter suppression via an oscillating cutter, J Manuf Sci Eng **121**(1) 54-60 (Feb 1999), 6A199
Effect of involute contact ratio on spur gear dynamics, J Mech Des **121**(1) 112-118 (Mar 1999), 7A196
Dynamic analysis of multi-mesh counter-shaft transmission, J Sound Vib **219**(5) 905-919 (Feb 1999), 7T198
Effect of thread dimensional conformance on vibration-induced loosening, J Vib Acoust **121**(2) 209-213 (Apr 1999), 8A187
Modeling of stochastic modulated rattling system, Appl Math Mech **20**(1) 90-98 (Jan 1999), 9A113
Flexural-torsional vibration analysis for the rotating systems using discrete-continuous mechanical models, Machine Dyn Prob **20** 275-286 (1998), 9A197
Rotationally periodic continuous analog model for bladed disk assembly vibration, Machine Dyn Prob **20** 157-179 (1998), 9A198
Prediction of the first modal frequency of compliant mechanisms using the pseudo-rigid-body model, J Mech Des **121**(2) 309-313 (Jun 1999), 9A1084
Analytical characterization of the unique properties of planetary gear free vibration, J Vib Acoust **121**(3) 316-321 (Jul 1999), 10A229
Influence of lubrication on the dynamic behavior of ball bearings, J Sound Vib **222**(4) 579-596 (May 1999), 10A230
Application of a hybrid neural model for determination of selected yarn parameters, Fibres Textiles in E Europe **6**(4) 27-35 (Sep-Dec 1998), 11A220
Melt spinning technique for bicomponent fibers, Fibres Textiles in E Europe **6**(4) 36-41 (Sep-Dec 1998), 11A221

Modeling yarn tension in the process of manufacturing on the ring-spinning machine, Fibres Textiles in E Europe **6**(3) 30-33 (Jul-Aug 1998), 11A222
Sensitivity analysis as an estimate criterion of shaker-foundation structure model (Polish), Inzynieria Budownictwo **54**(10) 567-570 (1998), 11T223
Shock effects in warp during the beat-up process, Fibres Textiles in E Europe **6**(3) 34-37 (Jul-Aug 1998), 11A224
Torsional vibrations of a hook shaft in a sewing machine, Fibres Textiles in E Europe **7**(1) 51-53 (Jan-Mar 1999), 11T225
Symmetrically piecewise linear oscillator: Design and measurement, Proc Inst Mech Eng C **213**(C3) 241-249 (1999), 11A989

156L. Machine tools

Plate insertion as a means to improve the damping capacity of a cutting tool system, Int J Machine Tools Manuf **38**(10-11) 1209-1220 (Oct-Nov 1998), 1A185
Review of chatter studies in cold rolling, Int J Machine Tools Manuf **38**(12) 1499-1530 (Dec 1998), 1A186
Using coarse-grained entropy rate to detect chatter in cutting, J Sound Vib **214**(5) 941-952 (Jul 1998), 1A187
Control system for chatter avoidance by ramping the spindle speed, J Manuf Sci Eng **120**(4) 674-683 (Nov 1998), 2A784
Mechanics and dynamics of ball end milling, J Manuf Sci Eng **120**(4) 684-692 (Nov 1998), 2A790
Multi-category classification of tool conditions using wavelet packets and ART2 network, J Manuf Sci Eng **120**(4) 807-816 (Nov 1998), 2A791
System theory approach to mode coupling chatter in machining, J Dyn Syst Meas Control **120**(4) 545-547 (Dec 1998), 3A194
Non-stationary cutting, J Sound Vib **217**(1) 183-190 (Oct 1998), 4T196
Whirl suppression in hand-held power tool rotors using guided rolling balancers, J Sound Vib **217**(3) 453-466 (Oct 1998), 4A197
Study on real-time detecting of machine tool chatter, Int J Japan Soc Precision Eng **32**(3) 178-182 (Sep 1998), 6A200
Vibrations of Structures and Machines: Practical Aspects, Third Edition (Springer-Verlag, New York, 1999) 7R10
Control of low velocity friction and gear backlash in a machine tool feed drive system, Mechatronics **9**(1) 33-52 (Feb 1999), 7A394
Chatter frequency in turning considering tool compliance and wearland, J Manuf Sci Eng **121**(2) 307-311 (May 1999), 9A199
Contact models external cylindrical grinding, Machine Dyn Prob **20** 245-262 (1998), 9T200
Adaptive feedback control of machine-tool vibration based on the filtered-x LMS-algorithm, J Low Frequency Noise Vib **17**(4) 199-213 (1998), 10A231
Fuzzy stability analysis of mode coupling chatter on cutting process, Chinese J Mech Eng **11**(2) 109-114 (Jun 1998), 10A232
Effective control of torsional vibrations in drilling systems, J Sound Vib **224**(1) 101-122 (Jul 1999), 12A125

156M. Rotating machines and turbomachinery

Machinery Malfunction, Diagnosis, and Correction: Vibration Analysis and Troubleshooting for the Process Industries (Prentice Hall, Upper Saddle River, NJ, 1998) 1R8
Algorithm for response and stability of large order nonlinear systems: Application to rotor systems, J Sound Vib **214**(4) 695-723 (Jul 1998), 1A105
Vibration analysis of rotating machinery using the spectral distribution function, J Sound Vib **214**(5) 805-815 (Jul 1998), 1A188
Dynamic problems concerning the speed of rotation increase of a turbine-blower assembly, J Sound Vib **215**(1) 47-62 (Aug 1998), 2A262
Dynamics of a rotating system with a nonlinear eddy-current damper, J Vib Acoust **120**(4) 848-853 (Oct 1998), 2A263
Nonlinear periodic response of engine accessory drives with dry friction tensioners, J Vib Acoust **120**(4) 909-916 (Oct 1998), 2A264
Stability of a flexible wheelset for high speed rail vehicles with constant and varying parameters, J Vib Acoust **120**(4) 997-1002 (Oct 1998), 2A265
Steady-state response of continuous nonlinear rotor-bearing systems using analytical approach, J Eng Gas Turbines Power **120**(4) 751-758 (Oct 1998), 2A266
Survey of blade tip-timing measurement techniques for turbomachinery vibration, J Eng Gas Turbines Power **120**(4) 784-791 (Oct 1998), 2A274
Dynamic analysis and reduced order modeling of flexible rotor-bearing systems, Comput Struct **69**(3) 349-359 (Nov 1998), 3A195
Vibration analysis for the design of a high-speed generator for a turbo-electric hybrid vehicle, Proc Inst Mech Eng D **212**(D4) 271-283 (1998), 3A196
Finite element analysis of whirl speeds for rotor-bearing systems with internal damping, Mech Syst Signal Processing **12**(5) 599-610 (Sep 1998), 4T174
Whirl suppression in hand-held power tool rotors using guided rolling balancers, J Sound Vib **217**(3) 453-466 (Oct 1998), 4A197
Diagnosing spindle defects using 4D holospectrum, J Vib and Control **4**(6) 717-732 (Nov 1998), 4A198
Enhancement of impulsive noise and vibration signals for fault detection in rotating and reciprocating machinery, J Sound Vib **217**(3) 485-505 (Oct 1998), 4A199
Acoustic systems with multiple incoherent sources and its application in studying noises radiated from vehicle engine, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 68-75 (Jun 1998), 4A293
Vibration control of a flexible rotor-magnetic bearing system subject to direct forcing and base motion disturbances, Proc Inst Mech Eng C **212**(C7) 535-546 (1998), 5A162
Vibration of a mistuned bladed-disk assembly using structurally damped beams, AIAA J **36**(12) 2225-2228 (Dec 1998), 6A174
Autocoherent spectrum- a useful spectral estimator for vibration analysis of rotating machinery: Accurate estimation and cancellation of pure tones, Mech Syst Signal Processing **12**(6) 753-768 (Nov 1998), 6A201
Dynamic behavior of a precession rotor having impact and rub with stopper (Chinese), J Tsinghua Univ Sci Tech **38**(8) 104-106 (Aug 1998), 6A202
Inviscid rotordynamic damping forces due to nonaxisymmetric tip clearance in turbines, AIAA J **36**(12) 2163-2169 (Dec 1998), 6A203
Modeling for rotor-bearing system of hydroelectric machines and its nonlinear transient response (Chinese), J Tsinghua Univ Sci Tech **38**(6) 123-128 (Jun 1998), 6A204
Multiple-step mode synthesis method for dynamic analysis on whole hydroelectric machine system (Chinese), J Tsinghua Univ Sci Tech **38**(6) 115-118 (Jun 1998), 6A205
Vibrational research of big Rancis Turbine for small load condition (Chinese), J Huazhong Univ Sci Tech **26**(10) 73-75 (Oct 1998), 6A206
Research of a data acquisition system of vibration signal for large-scale rotating machine (Chinese), J Tsinghua Univ Sci Tech **38**(6) 111-114 (Jun 1998), 6A453
Dynamic analysis of hydraulic turbine runner and blade systems - I: Mechanics model and formulation (Chinese), J Tsinghua Univ Sci Tech **38**(8) 68-71 (Aug 1998), 6A1323
Dynamic analysis of hydraulic turbine runner and blade system - II: Analysis of examples (Chinese), J Tsinghua Univ Sci Tech **38**(8) 72-75 (Aug 1998), 6A1324
Vibrations of Structures and Machines: Practical Aspects, Third Edition (Springer-Verlag, New York, 1999) 7R10
Centrifugal pendulum absorber for rotating, hollow engine blades, J Sound Vib **219**(3) 539-549 (Jan 1999), 7T197
Dynamic analysis of multi-mesh counter-shaft transmission, J Sound Vib **219**(5) 905-919 (Feb 1999), 7T198
Time domain modeling of a reciprocating engine, Mech Syst Signal Processing **13**(1) 169-178 (Jan 1999), 7A199
Torsional excitation of variable inertia effects in a reciprocating engine, Mech Syst Signal Processing **13**(1) 125-144 (Jan 1999), 7A200
Identification of bearingless main rotor dynamic characteristics from frequency-response wind-tunnel test data, J Am Helicopter Soc **44**(1) 63-76 (Jan 1999), 7T1135
Aeroelastic forced response of turbomachinery blades (French), Rev Francaise Mec **0**(4) 265-275 (Dec 1998), 7A1153
Centrifugal delayed resonator as a tunable torsional vibration absorber for multi-dof systems, J Vib and Control **5**(2) 299-322 (Mar 1999), 8A188
Dual dynamic absorber for the torsional vibrations of synchronous motor-driven compressors, J Sound Vib **220**(4) 729-748 (Mar 1999), 8A189
Dynamic gear loads due to coupled lateral, torsional and axial vibrations in a helical geared system, J Vib Acoust **121**(2) 141-148 (Apr 1999), 8A190
Dynamic instability of a turbine generator due to microslip, J Vib Acoust **121**(2) 162-168 (Apr 1999), 8A191
Evaluation of AMB turbomachinery auxiliary bearings, J Vib Acoust **121**(2) 156-161 (Apr 1999), 8A192
Interaction dynamics between a flexible rotor and an auxiliary clearance bearing, J Vib Acoust **121**(2) 183-189 (Apr 1999), 8A193
Robust control of a spindle-magnetic bearing system using sliding-mode control and variable structure system disturbance observer, J Vib and Control **5**(2) 277-298 (Mar 1999), 8A194
Unbalance identification and field balancing of dual rotors system with slightly different rotating speeds, J Sound Vib **220**(2) 343-351 (Feb 1999), 8A195
Nonlinear vibration analysis of rotor system using substructure synthesis method: Analysis with consideration of nonlinearity of rotor, JSME Int J Ser C **41**(4) 727-733 (Dec 1998), 9A201
Nonstationary oscillations of a nonlinear rotor during acceleration through the major critical speed: Influence of internal resonance, JSME Int J Ser C **41**(3) 599-607 (Sep 1998), 9A202
Rotordynamic modeling and analysis procedures: A review, JSME Int J Ser C **41**(1) 1-12 (Mar 1998), 9A203
Modeling the lateral vibration of hydraulic turbine-generator rotors, J Vib Acoust **121**(3) 322-327 (Jul 1999), 10A233
Study on torsional vibration problem of mine host gear-transmission system, Chinese J Mech Eng **11**(3) 239-248 (Sep 1998), 10A234
Application of correlation dimension in gearbox condition monitoring, J Sound Vib **223**(4) 529-541 (Jun 1999), 12A171
Influence of the resonant frequency on the control of knock in diesel engines, Proc Inst Mech Eng D **213**(D2) 127-133 (1999), 12A172
Free and forced vibrations of a rotating disk pack and spindle motor system with hydrodynamic bearings, J Info Storage Processing Syst **1**(1) 45-58 (Jan 1999), 12A449

156N. Damping

Forced response analysis in time and frequency domains of a tuned bladed disk with friction dampers, J Sound Vib **214**(3) 395-412 (Jul 1998), 1A132
Optimal damping between two adjacent elastic structures, Earthquake Eng Struct Dyn **27**(7) 649-659 (Jul 1998), 1A134
Mitigation of 3D vibration of inclined sag cable using discrete oil dampers - II: Application, J Sound Vib **214**(4) 675-693 (Jul 1998), 1A149
Characterization of laws of friction in the context of engine blade dynamics, J Eng Gas Turbines Power **120**(4) 759-765 (Oct 1998), 2A239
Dynamics of a rotating system with a nonlinear eddy-current damper, J Vib Acoust **120**(4) 848-853 (Oct 1998), 2A263
Identifying Coulomb and viscous friction from free-vibration decrements, Nonlinear Dyn **16**(4) 337-347 (Aug 1998), 2A267
Modal damping identification for multi dof dynamic systems, J Eng Appl Sci **45**(3) 345-359 (Jun 1998), 2A268
Vibration parameters identification in a spacecraft subjected to active vibration damping, Mechatronics **8**(6) 691-705 (Sep 1998), 3A197
Squeeze film damping effect on the dynamic response of a MEMS torsion mirror, J Micromech Microeng **8**(3) 200-208 (Sep 1998), 3A451
Proof-of-concept investigation on active vibration control of hybrid smart structures, Mechatronics **8**(6) 673-689 (Sep 1998), 3A887
Passive Energy Dissipation Systems in Structural Engineering (Wiley, UK, 1997) 4R4
Impact dampers in application for tube, rod and rope structures, Mech Machine Theory **34**(2) 243-253 (Feb 1999), 4A224
Vibration damping control of intelligent truss structure (Chinese), J Xi'an Jiaotong Univ **32**(10) 75-78 (1998), 4A891
Damping of bending waves in truss beams by electrical transmission lines with PZT actuators, Arch Appl Mech **68**(9) 626-636 (Nov 1998), 5A163
Magnetic damping for maglev, Shock Vib **5**(2) 119-128 (1998), 5A164
Resonance frequencies of viscously damped structures, J Sound Vib **217**(5) 950-959 (Nov 1998), 5T165
Application of Chebyshev's min-max criterion to the optimal design of a damped dynamic vibration absorber, J Sound Vib **217**(4) 757-765 (Nov 1998), 5A170
Fluid damping controlled instability of tubes in cross-flow, J Sound Vib **217**(5) 883-907 (Nov 1998), 5A245
Identification of nonlinear hysteretic isolators from periodic vibration tests, J Sound Vib **217**(4) 737-756 (Nov 1998), 5A323
Vibration and Noise Control - 1998 (ASME, New York, 1998) 6N10
Moving stability analysis of a rotor-damper-seal system (Chinese), J Tsinghua Univ Sci Tech **38**(8) 107-110 (Aug 1998), 6A177
Inviscid rotordynamic damping forces due to nonaxisymmetric tip clearance in turbines, AIAA J **36**(12) 2163-2169 (Dec 1998), 6A203
Active control of MDOF structures with supplemental electrorheological fluid dampers, Earthquake Eng Struct Dyn **28**(2) 143-156 (Feb 1999), 7A122
Development of approximate methods for the analysis of patch damping design concepts, J Sound Vib **219**(5) 785-812 (Feb 1999), 7A123
Experimental characterization of damping force in shock absorbers with constant velocity excitation, Vehicle Syst Dyn **30**(6) 431-442 (Dec 1998), 7A201
Influence of damping on waves and vibrations, Mech Syst Signal Processing **13**(1) 1-30 (Jan 1999), 7T202
Further insight into self-adjoint second-order systems, J Vib and Control **5**(2) 237-252 (Mar 1999), 8A105
Passive damper for the vibration modes of the head actuator in hard disk drives, J Sound Vib **220**(4) 683-694 (Mar 1999), 8A117
Experimental investigation of the damping of structural vibrations by vorticity production, J Sound Vib **220**(2) 297-312 (Feb 1999), 8A196
Study of the effect of in-plane and interlaminar stresses on damping in fluid-filled laminated composite cylinders, Composite Struct **43**(4) 301-320 (Dec 1998), 8A615
Comparison of predictions with test results for rotordynamic coefficients of a four-pocket gas damper seal, J Trib **121**(2) 363-369 (Apr 1999), 8A925
Refined theories may be needed for vibration analysis of structures with overhang, Int J Solids Struct **36**(24) 3581-3589 (Aug 1999), 10A243
Modeling of tuned liquid damper with submerged nets, J Pressure Vessel Tech **121**(3) 334-343 (Aug 1999), 11A226
Parametric effects of plates with CLD treatment on vibration suppression, J Chinese Soc Mech Eng **20**(2) 159-167 (Apr 1999), 11A227
Mode shapes during asynchronous motion and non-proportionality indices, J Sound Vib **224**(1) 1-16 (Jul 1999), 12A173

156O. Isolation

Seismic, Shock, and Vibration Insolation - 1998 (ASME, New York, 1998) 1N30
Dynamic analysis on structures base-isolated by a ball system with restoring property, Earthquake Eng Struct Dyn **27**(8) 773-791 (Aug 1998), 1A189
Modeling aspects of structures isolated with the frictional pendulum system, Earthquake Eng Struct Dyn **27**(8) 845-867 (Aug 1998), 1A190
Response of nonlinear dissipative shock isolators, J Sound Vib **214**(4) 589-603 (Jul 1998), 1A191
Analysis of vibration isolation systems using a graph model, J Sound Vib **216**(3) 399-412 (Sep 1998), 3A198
Isolation design for a flexible system, J Sound Vib **216**(2) 251-267 (Sep 1998), 3A199
Isolation vibration system of a curved spring for gravitational wave detectors (Chinese), J Huazhong Univ Sci Tech **26**(7) 13-15 (Jul 1998), 4A200
Vibration model of open celled polyurethane foam automotive seat cushions, J Sound Vib **217**(1) 145-161 (Oct 1998), 4A201
Whole-spacecraft passive launch isolation, J Spacecraft Rockets **35**(5) 690-694 (Sep-Oct 1998), 4A202
Improved model of a pneumatic vibration isolator: Theory and experiment, J Sound Vib **218**(1) 81-101 (Nov 1998), 5A166
Review: Optimal shock and vibration isolation, Shock Vib **5**(2) 73-87 (1998), 5A167
Two-stage rocking vibration isolation system (Chinese), J Beijing IT **18**(3) 274-278 (Jun 1998), 5A168
Universal bumpered vibration isolator for severe environment, J Sound Vib **218**(2) 269-292 (Nov 1998), 5A169
Identification of nonlinear hysteretic isolators from periodic vibration tests, J Sound Vib **217**(4) 737-756 (Nov 1998), 5A323
Vibration and Noise Control - 1998 (ASME, New York, 1998) 6N10
Theory of Adaptive Structures: Incorporating Intelligence into Engineered Products (CRC Press, Boca Raton FL, 1998) 6R18
Optimum design of a passive suspension system of a vehicle subjected to actual random road excitations, J Sound Vib **219**(2) 193-205 (Jan 1999), 6A117
Role of damping in seismic isolation, Earthquake Eng Struct Dyn **28**(1) 3-20 (Jan 1999), 6A136
Modeling of nonlinear elastomeric vibration isolators, J Sound Vib **219**(2) 239-253 (Jan 1999), 6A207
Study of active suspension control algorithm based on frequency-shaping performance index (Chinese), J Tsinghua Univ Sci Tech **38**(8) 83-87 (Aug 1998), 6A208
Use of nonlinear localization for isolating structures from earthquake-induced motions, Earthquake Eng Struct Dyn **28**(1) 21-36 (Jan 1999), 6A1502
Performance characteristics of a vibration isolator with electro-rheological fluids, J Sound Vib **219**(3) 395-404 (Jan 1999), 7A129
Evaluation of laminated rubber bearings for seismic isolation using modified macro-model with parameter equations of instantaneous apparent shear modulus, Eng Struct **21**(7) 594-602 (Jul 1999), 7A203
Isolation properties of semiactive dampers, J Vib and Control **5**(2) 217-232 (Mar 1999), 8A197
Quadratic programming approach to the design of active-passive vibration isolation systems, J Sound Vib **220**(5) 807-825 (Mar 1999), 8A198
Structure-borne sound power and source characterization in multi-point-connected systems - Part 2: About mobility functions and free velocities, J Sound Vib **220**(2) 203-224 (Feb 1999), 8A199

Real-time on-line test for MDOF systems, Earthquake Eng Struct Dyn **28**(4) 393-420 (Apr 1999), 9A183
Active vibration isolation control for a multi-dof structure with uncertain base dynamics, JSME Int J Ser C **41**(1) 37-45 (Mar 1998), 9A204
Structure-borne sound transmission from machines in buildings - Part 1: Indirect measurement of force at the machine-receiver interface of a single and multi-point connected system by a reciprocal method, J Sound Vib **222**(1) 85-98 (Apr 1999), 10A235
Structure-borne sound transmission from machines in buildings - Part 2: Indirect measurement of force and moment at the machine-receiver interface of a single point connected system by a reciprocal method, J Sound Vib **222**(1) 99-113 (Apr 1999), 10A236
Wheelbase preview optimal control for active vehicle suspensions, Chinese J Mech Eng **11**(2) 122-129 (Jun 1998), 10A237
Hierarchical control of hydraulic active suspensions of a fast all-terrain military vehicle, J Sound Vib **222**(5) 723-752 (May 1999), 11A218
Active vibration isolation of multi-dof systems, J Vib and Control **5**(4) 577-589 (Jul 1999), 12A174
Optimal design of a vibration isolation mount using physical programming, J Dyn Syst Meas Control **121**(2) 171-178 (Jun 1999), 12A175

156P. Absorption

Bandpass vibration absorber, J Sound Vib **214**(3) 553-566 (Jul 1998), 1A192
New dual-reaction mass dynamic vibration absorber actuator for active vibration control, J Sound Vib **214**(5) 817-831 (Jul 1998), 1A193
Effects of imperfections on the performance of the subharmonic vibration absorber system, J Sound Vib **215**(5) 1065-1099 (Sep 1998), 3A200
Application of Chebyshev's min-max criterion to the optimal design of a damped dynamic vibration absorber, J Sound Vib **217**(4) 757-765 (Nov 1998), 5A170
Vibration control of shallow shell structures using a shell-type dynamic vibration absorber, J Sound Vib **218**(2) 245-267 (Nov 1998), 5A171
Centrifugal pendulum absorber for rotating, hollow engine blades, J Sound Vib **219**(3) 539-549 (Jan 1999), 7T197
Predicting the absorption of open weave textiles and micro-perforated membranes backed by an air space, J Sound Vib **220**(5) 905-920 (Mar 1999), 8A139
Aseismic roof isolation system: Analytic and shake table studies, Earthquake Eng Struct Dyn **28**(3) 217-234 (Mar 1999), 8A182
Vibration reduction of flexible manipulators using torque wheels, Mech Struct Machines **27**(1) 1-22 (1999), 8A431
Optimal placement of a proof mass actuator for active structural acoustic control, Mech Struct Machines **27**(1) 23-35 (1999), 8A834
Active dynamic vibration absorber with automatic frequency-tracking performance, JSME Int J Ser C **41**(3) 378-383 (Sep 1998), 9A205
Improving the performance of a vibration neutralizer by actively removing damping, J Sound Vib **221**(4) 587-606 (Apr 1999), 9A206
Analytical and experimental evaluation of an air damped dynamic vibration absorber: Design optimization of the three-element type model, J Vib Acoust **121**(3) 334-342 (Jul 1999), 10A238
Investigate WVA for controlling bending vibration in steel plate by SEA (Chinese), J Huazhong Univ Sci Tech **27**(2) 19-21 (Feb 1999), 10A239
Multiple delayed resonator vibration absorbers for multi dof mechanical structures, J Sound Vib **223**(4) 567-585 (Jun 1999), 12A176

156Y. Computational techniques

Flexibility-based linear dynamic analysis of complex structures with curved-3D members, Earthquake Eng Struct Dyn **27**(7) 731-747 (Jul 1998), 1A166
Multiple-criterion method for determining structural damage, AIAA J **36**(8) 1494-1501 (Aug 1998), 2A62
Identifying Coulomb and viscous friction from free-vibration decrements, Nonlinear Dyn **16**(4) 337-347 (Aug 1998), 2A267
Efficient stiffness matrix estimation for elastic structures, Comput Struct **69**(1) 79-84 (Oct 1998), 2A269
Optimal boundary control of 1D multi-span vibrating systems, J Comput Appl Math **94**(1) 39-54 (Jul 1998), 2A270
Parallel method of eigenvalue analysis using dynamic substructuring and homotopy continuation, Int J Numer Methods Eng **43**(3) 409-424 (Oct 1998), 2A271
Application of periodic time-varying autoregressive models to the detection of bearing faults, Proc Inst Mech Eng C **212**(C6) 417-428 (1998), 3A201
Comparing model update error residuals and effects on model predictive accuracy, AIAA J **36**(10) 1894-1900 (Oct 1998), 3A202
High modal density approximations for equipment in the time domain, J Acoust Soc Am **104**(4) 2048-2053 (Oct 1998), 3A203
Relative performance of spectrum superposition methods considering modal interaction effects, Soil Dyn Earthquake Eng **17**(6) 357-369 (Aug 1998), 3A204
Experimental and theoretical results in output-trajectory redesign for flexible structures, J Dyn Syst Meas Control **120**(4) 456-461 (Dec 1998), 3A412
Insights into the dynamics of defective structures, Proc Inst Mech Eng C **212**(C6) 441-454 (1998), 3A742
New tools for structural testing: Piezoelectric impact hammers and acceleration rate sensors, J Guidance Control Dyn **21**(5) 692-697 (Sep-Oct 1998), 3A853
Computational procedure for nonlinear dynamic analysis of vehicles, Vehicle Syst Dyn **30**(1) 37-54 (Jul 1998), 4T186
Dynamic simulation of Taipei EMU train, Vehicle Syst Dyn **30**(2) 143-167 (Aug 1998), 4A188
Time domain model of the vertical dynamics of a railway track up to 5 kHz, Vehicle Syst Dyn **30**(1) 1-15 (Jul 1998), 4A192
Parallel computing of high precision direct integration method for structural dynamic response (Chinese), J Shanghai Jiaotong Univ **32**(8) 81-85 (Aug 1998), 4A203
Comparison study of subspace identification methods applied to flexible structures, Mech Syst Signal Processing **12**(5) 679-692 (Sep 1998), 4T351
Implicit multi-time step integration method for structural dynamics problems, Comput Mech **22**(4) 337-343 (Oct 1998), 5A172
Iterative approach to dynamic elastic-plastic analysis, J Appl Mech **65**(4) 811-819 (Dec 1998), 5A173
Remote identification of impact forces on loosely supported tubes: Analysis of multi-supported systems, J Pressure Vessel Tech **121**(1) 61-70 (Feb 1999), 5A174
Improved spectrum superposition method for structures with rigid modes, Nucl Eng Des **185**(2-3) 293-307 (Oct 1998), 5A1482
Modern Practice in Stress and Vibration Analysis (Balkema, Rotterdam, Netherlands, 1997) 6N9
Dynamic FE model improvement of a PCB structure, J Vib and Control **5**(1) 57-74 (Jan 1999), 6A209
Simulation of bending-torsional-lateral vibrations of the railway wheelset-track system in the medium frequency range, Vehicle Syst Dyn **30**(6) 473-508 (Dec 1998), 7A190
Automatic process for the determination of modal supersets of residual flexibilities used in the modal synthesis method, J Brazilian Soc Mech Sci **20**(4) 656-665 (Dec 1998), 7A204
Modeling and control of a flexible structure incorporating inertial slip-stick actuators, J Guidance Control Dyn **22**(1) 36-42 (Jan-Feb 1999), 7A383
Accelerated subspace iteration method for generalized eigenproblems using dynamic condensation technique, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 6-11 (Dec 1998), 8A200
Load identification through structural modification, J Appl Mech **66**(1) 236-241 (Mar 1999), 8A201
Nonlinear vibration analysis of rotor system using substructure synthesis method: Analysis with consideration of nonlinearity of rotor, JSME Int J Ser C **41**(4) 727-733 (Dec 1998), 9A201
Component mode synthesis method and parallel computing (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 13-18 (Jan 1999), 9A207
Hybrid inverse eigenmode problem for top-linked twin shear building models, Int J Mech Sci **41**(9) 1133-1153 (Sep 1999), 9A208
Accelerated subspace iteration method for generalized eigenproblems, Comput Struct **71**(3) 293-301 (May 1999), 10A240
Active vibration control and suppression for integrated structures, Appl Math Mech **20**(2) 171-178 (Feb 1999), 10A241
Physical modifications to vibratory systems with assigned eigendata, J Appl Mech **66**(2) 427-431 (Jun 1999), 10A242
Refined theories may be needed for vibration analysis of structures with overhang, Int J Solids Struct **36**(24) 3581-3589 (Aug 1999), 10A243
Energy-conserving and decaying algorithms in nonlinear structural dynamics, Int J Numer Methods Eng **45**(5) 569-599 (Jun 1999), 11A228
Evaluation of dynamic stresses in pipelines using limited vibration measurements and FEA in the frequency domain, J Pressure Vessel Tech **121**(3) 241-245 (Aug 1999), 11A229
Natural-frequency design of dynamic structure models using sensitivity analysis, Composite Mech Des **3**(2) 50-59 (1997), 11A230
Possibility of using the theory of sensitivity in diagnostics of a railway freight car and track, Arch Civil Eng **44**(4) 491-503 (1998), 12T177

156Z. Experimental techniques

Theory versus experiment for the effects of pressure ratio on the performance of an orifice-compensated hybrid bearing, J Vib Acoust **120**(4) 930-936 (Oct 1998), 2A261
Fast and high accurate mass measurement under the conditions of floor vibration: On the method of compensating the difference in dynamics without on-line identification, J Japan Soc Precision Eng **64**(7) 1029-1034 (Jul 1998), 2T272
One case of determination of nonlinear dynamic characteristics of structures under the vibration tests (Russian), Prikl Mekh (Appl Mech) **33**(5) 82-88 (1998), 2T273
Survey of blade tip-timing measurement techniques for turbomachinery vibration, J Eng Gas Turbines Power **120**(4) 784-791 (Oct 1998), 2A274
Theory and methodology of optimally measuring vibratory strains in closely spaced modes, J Eng Gas Turbines Power **120**(4) 801-807 (Oct 1998), 2A275
Experimental study of a prototype active anti-roll suspension system, Vehicle Syst Dyn **29**(5) 309-329 (May 1998), 2A528
Frequency domain modal estimation techniques, Exp Tech **22**(5) 33-37 (Sep-Oct 1998), 3T205
Experimental and theoretical results in output-trajectory redesign for flexible structures, J Dyn Syst Meas Control **120**(4) 456-461 (Dec 1998), 3A412
Exact adjustment of dynamic forces in presence of nonlinear feedback and singularity - Theory and algorithm, J Sound Vib **218**(1) 1-27 (Nov 1998), 5A157
Evaluation of dynamic stresses in pipelines using limited vibration measurements and FEA in the time domain, J Pressure Vessel Tech **121**(1) 37-41 (Feb 1999), 5A175
Identification of a dynamic system using ambient vibration measurements, J Appl Mech **65**(4) 1010-1021 (Dec 1998), 5A176
Time domain modal estimation techniques, Exp Tech **22**(6) 45-49 (Nov-Dec 1998), 5T177
Time-frequency error measures for dynamic signal reproduction, Exp Mech **38**(4) 303-305 (Dec 1998), 5A178
Force frequency shifting for structural excitation, J Sound Vib **219**(2) 223-237 (Jan 1999), 6A187
Inertial measurement method for bridge dynamic deflection based on time-limited signal recovery technique (Chinese), J Tsinghua Univ Sci Tech **38**(8) 19-21 (Aug 1998), 6A194
Experimental investigation of the damping of structural vibrations by vorticity production, J Sound Vib **220**(2) 297-312 (Feb 1999), 8A196
GPS monitoring of dynamic behavior of long-period structures, Earthquake Spectra **15**(1) 55-66 (Feb 1999), 8A202
Real-time on-line test for MDOF systems, Earthquake Eng Struct Dyn **28**(4) 393-420 (Apr 1999), 9A183
Adaptive identification of operating deflection shapes, JSME Int J Ser C **42**(1) 133-139 (Mar 1999), 9A209
Improvement of accuracy and reliability of experimental modal analysis, JSME Int J Ser C **42**(1) 140-146 (Mar 1999), 9A210
Vibration monitoring of large generator stator end-winding (French), Rev Francaise Mec **0**(1) 43-47 (Mar 1999), 10T216
Structure-borne sound transmission from machines in buildings - Part 1: Indirect measurement of force at the machine-receiver interface of a single and multi-point connected system by a reciprocal method, J Sound Vib **222**(1) 85-98 (Apr 1999), 10A235
Structure-borne sound transmission from machines in buildings - Part 2: Indirect measurement of force and moment at the machine-receiver interface of a single point connected system by a reciprocal method, J Sound Vib **222**(1) 99-113 (Apr 1999), 10A236
Applications of the wavelet transform for diagnostics of mechanical systems, Rev Francaise Mec **0**(1) 35-38 (Mar 1999), 10A244
Model testing, Mech Syst Signal Processing **13**(2) 183-366 (Mar 1999), 10A1006
Experimental investigation of adjacent buildings connected by fluid damper, Earthquake Eng Struct Dyn **28**(6) 609-631 (Jun 1999), 11A216

158. WAVE MOTIONS IN SOLIDS

158A. General theory

Initial boundary-value problems for quasilinear wave equations with dissipation in an exterior domain, Nonlinear Anal **34**(2) 257-281 (Oct 1998), 1T194
Steady-state shear band propagation under dynamic conditions, J Mech Phys Solids **46**(8) 1463-1495 (Aug 1998), 1A195
Remarks on the blow-up boundaries and rates for nonlinear wave equations, Nonlinear Anal **33**(7) 693-698 (Sep 1998), 1T200
Reduced models in the medium frequency range for general dissipative structural-dynamics systems, Eur J Mech A **17**(4) 657-685 (1998), 1A203
Numerical Methods for Wave Propagation (Kluwer, Netherlands, 1998) 2N7
Near incompressibility at uniform temperature or entropy in isotropic thermoelasticity, Math Mech Solids **3**(3) 243-275 (Sep 1998), 2A276
Propagation of elastic waves in nonround hollow anisotropic cylinder (Russian), Prikl Mekh (Appl Mech) **33**(7) 3-9 (1997), 2A277
Oscillations and Waves (Springer-Verlag, New York, 1997) 3R10
Dynamic Poynting coupling, Arch Appl Mech **68**(7-8) 471-488 (Sep 1998), 3A206
Modeling failure waves in glass, Int J Impact Eng **21**(9) 791-799 (Oct 1998), 4A204
Coupled modified Kadomtsev-Petviashvili equations in dispersive elastic media, Int J Non-Linear Mech **34**(2) 289-297 (Mar 1999), 4A207
Cyclic symmetries of 1D nonlinear wave equations, Int J Non-Linear Mech **34**(3) 531-543 (May 1999), 5A179
Modeling of wave propagation induced by underground explosion, Comput Geotech **22**(3-4) 283-303 (1998), 5A180
Hyperbolic thermoelasticity: A review of recent literature, Appl Mech Rev **51**(12) 705-729 (Dec 1998), 5A1323
Method for solving the first initial-and-boundary-value problem of the linear theory of elasticity for isotropic bodies, J Appl Math Mech **62**(4) 665-668 (1998), 6A210
Nondispersive edge modes, Wave Motion **29**(2) 111-117 (Feb 1999), 6A211
Traveling point load revisited, Wave Motion **29**(2) 119-135 (Feb 1999), 6A212
Aspects of Saint-Venant's principle in the dynamical theory of linear micropolar elasticity, Math Mech Solids **4**(1) 17-34 (Mar 1999), 7A205
Post-fertilization traveling waves on eggs, Nonlinear Anal **36**(1) 45-62 (Apr 1999), 7T206
Babinet's principle for elastic waves: A numerical test, J Acoust Soc Am **105**(3) 1485-1492 (Mar 1999), 8A203
Effect of irreversible phase change on shockwave propagation, J Mech Phys Solids **47**(4) 763-783 (Apr 1999), 8A204
Estimate of the resolvent and the stability of traveling wave solution, Nonlinear Anal **36**(5) 559-567 (Jun 1999), 8T205
Interaction of solitary waves in solid mixtures (Russian), Prikl Mekh (Appl Mech) **34**(11) 23-31 (1998), 10A245
Note on an asymptotic solution of the cylindrical Korteweg-de Vries equation, Wave Motion **30**(1) 1-16 (Jul 1999), 10A246
Sideband instability and modulations of Faraday waves, Wave Motion **30**(1) 43-55 (Jul 1999), 10A247
Numerical non-monotonicity for dispersion curves in linear elasticity (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 481-484 (May 1999), 11A231
Repolarization of elastic waves at a frictional contact interface - II: Incidence of a P or SV wave, Int J Solids Struct **36**(30) 4563-4586 (Oct 1999), 11A232
Study on constitutive relations of copper using the acceleration waves and the theory of dynamic systems, Proc Estonian Acad Sci Eng **5**(2) 101-111 (Jun 1999), 12A10
Energy localization through Bragg gratings in quadratic media for second harmonic generation, Acta Phys Polonica A **95**(5) 719-726 (May 1999), 12T178
Stationary solutions of the electromagnetic TE waves propagating along a single interface between the two Kerr-type nonlinear media, Acta Phys Polonica A **95**(5) 801-812 (May 1999), 12T179

158B. Rods and beams, elastic

Addendum to "on extensional oscillations and waves in elastic rods", Math Mech Solids **3**(3) 297-301 (Sep 1998), 2T278
Extensional oscillations and waves in elastic rods, Math Mech Solids **3**(3) 277-295 (Sep 1998), 2A279
Pole assignment for the vibrating rod, Quart J Mech Appl Math **51**(3) 461-476 (Aug 1998), 2A280
Mode conversion of a guided wave by a part-circumferential notch in a pipe, J Appl Mech **65**(3) 649-656 (Sep 1998), 2A293
Reflection of guides waves from circumferential notches in pipes, J Appl Mech **65**(3) 635-641 (Sep 1998), 2A294
Exact traveling-wave solutions of an integrable equation arising in hyperelastic rods, Wave Motion **28**(4) 367-381 (Dec 1998), 3A207
Wave characteristics and vibration control of translating beams by optimal boundary damping, J Vib Acoust **121**(1) 18-25 (Jan 1999), 4A150

Frequency clusters in the spectrum of annular cylinders, J Appl Mech **65**(4) 797-803 (Dec 1998), 5A119
Optimal design of compressed beams with an additional lateral support, Struct Optim **16**(4) 275-279 (Dec 1998), 6A1017
Waves transmission through plate and beam junctions, Int J Mech Sci **41**(7) 831-843 (Jul 1999), 7A207
Localization of longitudinal waves in bi-periodic elastic structures with disorder, J Sound Vib **221**(1) 49-66 (Mar 1999), 8A206
Optimization of elastic junctions with regard to transmission of wave energy, Wave Motion **29**(3) 223-244 (Apr 1999), 8A207
Uniform asymptotic analysis for waves in an incompressible elastic rod - II: Disturbances superimposed on a pre-stressed state, IMA J Appl Math **62**(1) 1-29 (Feb 1999), 8A208
Modeling magnetostrictive generation of elastic waves in steel pipes - I: Theory, Int J Appl Electromagnetics Mech **10**(2) 143-166 (Apr 1999), 9A211
Modeling magnetostrictive generation of elastic waves in steel pipes - II: Comparison to experiment, Int J Appl Electromagnetics Mech **10**(2) 167-176 (Apr 1999), 9A212
Theoretical analysis, numerical calculation and experimental measurement of transient elastic waves in strips subjected to dynamic loadings, Int J Solids Struct **36**(23) 3541-3564 (Aug 1999), 10A163
Time domain algorithm for the reflection of waves on a viscoelastically supported Timoshenko beam, Quart J Mech Appl Math **52**(2) 211-236 (May 1999), 10A248
Two-dimensional torsional wave propagation in layered transversely isotropic cylinders, JSME Int J Ser A **41**(2) 199-203 (Apr 1998), 10A249
Dynamic response and wave propagation in plane trusses and frames, AIAA J **37**(5) 594-603 (May 1999), 11A233

158C. Plates and shells, elastic

Dispersion of waves in composite laminates with transverse matrix cracks, FE and plate theory computations, J Appl Mech **65**(3) 588-595 (Sep 1998), 2A290
Sound transmission through periodically inhomogeneous anisotropic thin plates: Generalizations of Cremer's thin plate theory, Acustica **84**(4) 668-680 (Jul-Aug 1998), 3A208
Three-dimensional wave propagation in composite cylindrical shells, Composite Struct **42**(2) 153-167 (Jun 1998), 3A622
Asymptotics of extensional waves in isotropic elastic plates, J Appl Mech **65**(4) 1042-1047 (Dec 1998), 5A181
Interacting longitudinal-shear waves in large elastic deformation of a composite cylindrical laminate, Int J Non-Linear Mech **34**(3) 405-414 (May 1999), 5A182
Thermoelastic modeling of laser-induced stress waves in plates, J Thermal Stresses **21**(8) 829-847 (Nov 1998), 5A1331
Numerical study of air-born acoustic field of stepped-plate high-power ultrasonic transducers, Acustica **84**(6) 1042-1046 (Nov-Dec 1998), 6A37
Dispersion characteristics of structure vibration waves in cylindrical shells, J Vib Eng **11**(4) 450-456 (Dec 1998), 6A213
Dynamic stress concentrations in Ambartsumian's plate with a cutout, Acta Mech Solida Sinica **11**(4) 341-350 (1998), 6A214
Reflection and transmission of structural waves at an interface between doubly curved shells, Acustica **84**(6) 1066-1076 (Nov-Dec 1998), 6A215
Finite amplitude spherically symmetric wave propagation in a prestressed hyperelastic shell, Int J Solids Struct **36**(19) 2793-2805 (Jul 1999), 8A209
Obtaining the free frequencies of the non-rigid Earth, Celest Mech Dyn Astron **71**(2) 95-108 (1998), 8A287
Localizing energy sources and sinks in plates using power flow maps computed from laser vibrometer measurements, Shock Vib **5**(4) 235-253 (1998), 9A213
Detection of propagation directions of plane waves in the low and medium frequency ranges for purely propagating stationary fields, Aerospace Sci Tech **3**(1) 21-28 (Jan 1999), 12A180

158D. Infinite and semi-infinite media, elastic

Linear stability of shock profiles for a rate-type viscoelastic system with relaxation, Quart Appl Math **56**(3) 569-586 (Sep 1998), 1A202
Dynamic response of a hemispherical foundation embedded in an elastic half-space, J Pressure Vessel Tech **120**(4) 343-348 (Nov 1998), 2A250
Elastic halfspace under impulsive, distributed, vertical loading at the surface: Exact solution at the center for a punch-like distribution, Soil Dyn Earthquake Eng **17**(5) 311-315 (Jul 1998), 2A281
Elastodynamic Green's function for a torsional ring source, J Appl Mech **65**(3) 566-568 (Sep 1998), 2A282
Multi-parameter inversion of elastic wave with surface reflection profiling in half-space (Chinese), J Huazhong Univ Sci Tech **26**(7) 27-29 (Jul 1998), 4A205
Reflection of plane waves from the boundary of a prestressed compressible elastic half-space, IMA J Appl Math **61**(1) 61-90 (Sep 1998), 5A197
Traveling point load revisited, Wave Motion **29**(2) 119-135 (Feb 1999), 6A212
Features of failure waves in highly-homogeneous brittle materials, J Appl Math Mech **62**(4) 657-663 (1998), 6A216
Propagation of Rayleigh waves in an elastic half-space of orthotropic material, Appl Math Comput **99**(1) 61-69 (Mar 1999), 6A222
Scattering by small defects in the neighborhood of a fluid-solid interface, IMA J Appl Math **61**(2) 155-177 (Oct 1998), 6A227
Comments on "The reflection phenomena of P-waves in a medium of monoclinic type" by Chattopadhyay and Choudhury, Int J Eng Sci **37**(3) 407-410 (Feb 1999), 7A208
Response of a layered half-space to traffic loads moving along its surface, Arch Appl Mech **69**(1) 55-67 (Feb 1999), 9A214
Exact Eshelby tensor for a dynamic circular cylindrical inclusion, J Appl Mech **66**(2) 563-565 (Jun 1999), 10T250

158E. Structures, elastic

Structural Response Prediction Using Experimental Data: The Sixth Mallet-Milne Lecture (Balkema, Rotterdam, Netherlands, 1997) 5N40
Slow effects of fast harmonic excitation for elastic structures, Nonlinear Dyn **17**(3) 227-246 (Nov 1998), 6A112
Convergence of the generalized AOR method, Appl Math Comput **99**(1) 35-46 (Mar 1999), 6T217
Mobility functions and their application in calculating power flow in coupled cylindrical shells, J Acoust Soc Am **105**(3) 1702-1713 (Mar 1999), 8A210

158F. Surface waves

Analytic results for roots of two irrational functions in elastic wave propagation, J Austral Math Soc B **40**(1) 72-79 (Jul 1998), 1A196
Attenuation of Love waves in a two-layered half-space, Wave Motion **28**(2) 191-193 (Sep 1998), 1A197
Microlocal analysis of migration, Wave Motion **28**(2) 149-172 (Sep 1998), 1A198
Properties of Love waves in a saturated soil layer (Chinese), J Vib Eng **11**(2) 177-183 (Jun 1998), 1A199
Fast acting hydrogen detectors using surface acoustic waves, Russian Ultrasonics **28**(1) 1-5 (1998), 1T210
Multiple scattering of HF radio waves propagating across the sea surface, Waves in Random Media **8**(3) 283-302 (Jul 1998), 1A220
Anomalously low attenuation of the leaky Rayleigh wave in a fluid-filled cylindrical cavity, J Acoust Soc Am **104**(3-PT1) 1246-1255 (Sep 1998), 2A283
Existence criterion for the branch of two-component surface waves in anisotropic elastic media, Wave Motion **28**(3) 241-257 (Oct 1998), 2A284
Lamb waves in highly attenuative plastic plates, J Acoust Soc Am **104**(2-PT1) 874-881 (Aug 1998), 2A285
New results for Franz and Rayleigh waves propagating around a cylindrical vacuum-solid interface, Wave Motion **28**(3) 227-239 (Oct 1998), 2A286
Scattering of surface elastic waves at a vertical anisotropic layer, Quart J Mech Appl Math **51**(3) 439-459 (Aug 1998), 2A287
Transient wave propagation in a circular annulus subjected to transient excitation on its outer surface, J Acoust Soc Am **104**(3-PT1) 1210-1220 (Sep 1998), 2A288
Global CMT analysis of moderate earthquakes, $M_w \geq 4.5$, using intermediate-period surface waves, Bull Seismol Soc Am **88**(4) 1003-1013 (Aug 1998), 2A1454
Antiplane shear Lamb's problem treated by gradient elasticity with surface energy, Wave Motion **28**(4) 353-366 (Dec 1998), 3A209
Dispersion of Lamb waves in layered plates (Chinese), J Vib Eng **11**(3) 366-372 (Sep 1998), 3T210
Mandrel effects on the dipole flexural mode in a borehole, J Acoust Soc Am **104**(4) 2025-2039 (Oct 1998), 3A211
Surface waves in slightly compressible, finitely deformed elastic media, Mech Res Commun **25**(5) 493-502 (Sep-Oct 1998), 3T212
Relation between stress and particle velocity for Rayleigh pulses, Acta Mech **131**(3-4) 247-253 (1998), 4A206
Existence of surface waves and the propagation of plate waves in pre-stressed fiber-reinforced composites, J Mech Phys Solids **46**(9) 1581-1612 (Sep 1998), 4A611
Fluid-borne and Lamb-type waves on elastic plates in contact with two different fluids, Acustica **84**(5) 823-829 (Sep-Oct 1998), 5A183
Nonlinear surface acoustoelectric waves controlled by an external electric field, Russian Ultrasonics **28**(3) 113-120 (1998), 5T184
Study of the local elastic properties of micro-inclusions and microforms by an acoustic interference fringe method, Russian Ultrasonics **28**(3) 98-101 (1998), 5A185
Surface-wave modes on soft gels, J Acoust Soc Am **104**(6) 3358-3363 (Dec 1998), 5A186
Excitation of normal modes of a thin elastic plate by moving dislocations, Wave Motion **29**(1) 35-46 (Jan 1998), 5A431
Modeling of borehole Stoneley waves in the presence of skin effects, J Acoust Soc Am **105**(2) 601-609 (Feb 1999), 7A209
Nonlinear surface acoustic waves in crystals, J Acoust Soc Am **105**(2) 639-651 (Feb 1999), 7A210
Response of a layered half-space to traffic loads moving along its surface, Arch Appl Mech **69**(1) 55-67 (Feb 1999), 9A214
Use of elastodynamic reciprocity to analyze point-load generated axisymmetric waves in a plate, Wave Motion **30**(1) 57-67 (Jul 1999), 10A251
Wavelet analysis of laser-generated surface waves in a layered structure with unbond regions, J Appl Mech **66**(2) 507-513 (Jun 1999), 10A252
Time-frequency analysis of the dispersion of Lamb modes, J Acoust Soc Am **105**(5) 2669-2676 (May 1999), 11A234

158G. Nonlinear motions

Remarks on the blow-up boundaries and rates for nonlinear wave equations, Nonlinear Anal **33**(7) 693-698 (Sep 1998), 1T200
Self-modulation of quasi-periodic shear magnetoelastic waves, Acoust Lett **20**(12) 266-268 (Jun 1997), 2A289
Dynamic Poynting coupling, Arch Appl Mech **68**(7-8) 471-488 (Sep 1998), 3A206
Coupled modified Kadomtsev-Petviashvili equations in dispersive elastic media, Int J Non-Linear Mech **34**(2) 289-297 (Mar 1999), 4A207
Interaction of waves in solid mixtures, Appl Mech Rev **52**(2) 35-74 (Feb 1999), 5A192
General periodic solutions to coupled nonlinear Schrodinger equations, Wave Motion **29**(2) 97-109 (Feb 1999), 6A218
Periodic traveling wave solutions of nonlinear wave equations, Nonlinear Anal **35**(7) 917-923 (Mar 1999), 6T219
Wave propagation in elastic media with cracks - II: Transient nonlinear response of a cracked matrix, Eur J Mech A **18**(1) 159-175 (Jan-Feb 1999), 8A221
Asymptotic averaged model of nonlinear long waves propagation in media with a regular structure, Int J Non-Linear Mech **34**(4) 643-654 (Jul 1999), 9A215
Decay of pulses with complex structure according to Burgers' equation, Acustica **85**(2) 181-196 (Mar-Apr 1999), 9A216
Laser-generated nonlinear Rayleigh waves with shocks, J Acoust Soc Am **105**(4) 2093-2096 (Apr 1999), 9A217
Nonlinear wave interactions in 1D crystals with complex lattice, Wave Motion **29**(4) 297-312 (May 1999), 9A218
Ultrasonic Waves in Solid Media (Cambridge UP, UK) 12R7
Nonlinear pulse propagation in arbitrarily dispersive media: Tube waves in permeable formations, J Acoust Soc Am **105**(6) 3087-3096 (Jun 1999), 12A181

158H. Plastic, viscoplastic waves

Mathematical modeling of wave propagation in a rod of time-dependent material, Mech Time-Dependent Mat **1**(4) 397-416 (1997), 1A201
Accurate viscoelastic modeling by frequency-domain finite differences using rotated operators, Geophys **63**(5) 1779-1794 (Sep-Oct 1998), 3A213
Experimental methods for considering dispersion and attenuation in a viscoelastic Hopkinson bar, Exp Mech **38**(4) 242-249 (Dec 1998), 5A187
Numerical study of the critical impact velocity in shear, Eur J Mech A **18**(1) 93-113 (Jan-Feb 1999), 8A211
Space-time FEM for elasto-plastic shock dynamics, J Sound Vib **222**(1) 65-84 (Apr 1999), 10A61
Wave speeds for an elastoplastic model for 2D deformations with a nonassociative flow rule, Quart Appl Math **57**(2) 245-259 (Jun 1999), 10A253

158I. Viscoelastic waves

Wave dispersion in deep multilayered doubly curved viscoelastic shells, J Sound Vib **214**(3) 531-552 (Jul 1998), 1A161
Linear stability of shock profiles for a rate-type viscoelastic system with relaxation, Quart Appl Math **56**(3) 569-586 (Sep 1998), 1A202
Reduced models in the medium frequency range for general dissipative structural-dynamics systems, Eur J Mech A **17**(4) 657-685 (1998), 1A203
Nonlinear viscoelastic Cosserat model for the wave propagation with generation of subharmonics, Int J Solids Struct **35**(34-35) 4575-4586 (Dec 1998), 3A12
Dithering of absorbers for efficient finite-difference modeling of viscoelastic wave propagation, Geophys **63**(5) 1799-1812 (Sep-Oct 1998), 3A214
Reflection and transmission of obliquely incident Rayleigh surface waves by a viscoelastic interphase, Acta Mech Solida Sinica **11**(3) 229-240 (1998), 3A215
Elastic wave propagation in an irregularly layered medium, Soil Dyn Earthquake Eng **18**(1) 11-18 (Jan 1998), 6A220
Separation of waves propagating in an elastic or viscoelastic Hopkinson pressure bar with the 3D effects, Int J Impact Eng **22**(1) 55-69 (Jan 1999), 7A211
Behavior of waves in high density polyethylene geomembranes: A laboratory study, Geotextiles Geomembranes **17**(2) 81-104 (Apr 1999), 8A212
Wave propagation in a viscoelastic medium containing fluid-filled micropheres, J Acoust Soc Am **105**(3) 1527-1538 (Mar 1999), 8A213
Properties of vibration with fractional derivative damping of order 1/2, JSME Int J Ser C **40**(3) 393-399 (Sep 1997), 9A123
Damping properties of the viscoelastic material described by fractional Kelvin-Voigt model, JSME Int J Ser C **42**(1) 1-9 (Mar 1999), 9A219
Numerical algorithm for dynamic problems involving fractional operators, JSME Int J Ser C **41**(3) 364-370 (Sep 1998), 9A220
Time domain algorithm for the reflection of waves on a viscoelastically supported Timoshenko beam, Quart J Mech Appl Math **52**(2) 211-236 (May 1999), 10A248

158J. Ultrasonic propagation

Absorption of longitudinal sound waves in polycrystalline titanium in the temperature region 120 - 220 K, Russian Ultrasonics **28**(1) 28-32 (1998), 1A204
Acousto-optic interaction in uniaxial gyrotropic crystals of tellurium, Russian Ultrasonics **27**(6) 317-322 (1997), 1A205
Attenuation of ultrasonic waves in suspensions over a wide range of concentrations, Russian Ultrasonics **27**(6) 339-348 (1997), 1A206
Echo signal from corner reflectors of 0.5 - 3 mm depth, Russian Ultrasonics **27**(6) 349-358 (1997), 1A207
Effect of ultrasound in the pseudoelastic deformation process in Cu-Al-Ni single crystals, Russian Ultrasonics **27**(6) 359-370 (1997), 1A208
Electromagnetic excitation of ultrasound in magnetically ordered dielectrics, Russian Ultrasonics **27**(6) 329-338 (1997), 1A209
Fast acting hydrogen detectors using surface acoustic waves, Russian Ultrasonics **28**(1) 1-5 (1998), 1T210
Method of multifrequency ultrasonic introscopy - I: Synthesis of a sounding pulse of given shape, Russian Ultrasonics **28**(1) 8-27 (1998), 1A211
Wideband acousto-optic hypersonic Bragg cells, Russian Ultrasonics **27**(6) 323-327 (1997), 1A212
Ultrasonic band gaps in aggregates of sintered aluminum beads, Acustica **84**(4) 628-631 (Jul-Aug 1998), 3A216
Ultrasonic separation of suspended particles - Part II: Design and operation of separation devices, Acustica **84**(4) 632-642 (Jul-Aug 1998), 3A217
Influence on field effect on the characteristics of surface acoustic waves in a metal-dielectric-semiconductor structure based on gallium arsenide, Russian Ultrasonics **28**(2) 44-49 (1998), 4A208
Choice of waveguide material for ultrasonic welding, Russian Ultrasonics **28**(3) 102-108 (1998), 5T188
Ultrasonic separation of suspended particles - Part III: Application in biotechnology, Acustica **84**(5) 815-822 (Sep-Oct 1998), 5A189
Numerical study of air-born acoustic field of stepped-plate high-power ultrasonic transducers, Acustica **84**(6) 1042-1046 (Nov-Dec 1998), 6A37
Elastic waves for the characterization of materials, Mech Mat **31**(3) 165-233 (Mar 1999), 7T213
Attenuation of ultrasonic waves in power generating equipment framework steels, Russian Ultrasonics **28**(4) 136-144 (1998), 8T214
Electromechanical coupling factor in static and dynamic conditions, Acustica **85**(1) 39-46 (Jan-Feb 1999), 8A215

Optimum beam steering of linear phased arrays, Wave Motion **29**(3) 245-265 (Apr 1999), 8A216
Technology and equipment for ultrasonic welding of polymer based composite structures, Russian Ultrasonics **28**(4) 145-155 (1998), 8T217
Various forms of negative displacement of reflected acoustic beams, Russian Ultrasonics **28**(4) 160-174 (1998), 8T218
Determination of the texture parameters in rolled aluminium articles by means of ultrasound, Russian Ultrasonics **28**(4) 129-135 (1998), 8A820
Dislocation propagation in an ultrasonic field, Russian Ultrasonics **28**(5) 227-236 (1998), 9A221
Measurement by an acoustic method of the thickness of welded joints in power equipment cast articles, Russian Ultrasonics **28**(6) 237-248 (1998), 9T222
Note on the dispersion relations of ultrasound propagation, Meccanica **34**(1) 59-62 (Feb 1999), 9T223
Propagation of wideband acoustic pulses in unidirectional fiber composites, Russian Ultrasonics **28**(5) 217-226 (1998), 9A224
Selection of modes of a piezoelectric layer in a composite acoustic resonator using bulk acoustic waves, Russian Ultrasonics **28**(5) 211-216 (1998), 9A225
Solution of one of the most important problems in ultrasonic testing, Russian Ultrasonics **28**(5) 204-210 (1998), 9T226
Ultrasonic flaw detection of welded joints in thin walled articles, Russian Ultrasonics **28**(6) 249-256 (1998), 9T227
Ultrasonic testing in the manufacture of a hydrocracking reactor vessel in accordance with the norms of the ASME code, Russian Ultrasonics **28**(5) 191-197 (1998), 9T228
Use of filling material in the ultrasonic butt welding of plastics, Russian Ultrasonics **28**(6) 257-262 (1998), 9T229
Vibroacoustic characteristics of ultrasonic cleaners, Appl Acoust **58**(2) 211-228 (Oct 1999), 9A230
Three dimensional ray tracing in austenite materials, NDT&E Int **32**(4) 201-213 (Jun 1999), 10A254
Ultrasonic evaluation of stresses in orthotropic materials using Rayleigh waves, NDT&E Int **32**(4) 189-199 (Jun 1999), 10A963

158K. Anisotropic media

Reduced models in the medium frequency range for general dissipative structural-dynamics systems, Eur J Mech A **17**(4) 657-685 (1998), 1A203
Removal of guided waves from seismic data in laterally varying media, Wave Motion **28**(2) 173-189 (Sep 1998), 1A213
Existence criterion for the branch of two-component surface waves in anisotropic elastic media, Wave Motion **28**(3) 241-257 (Oct 1998), 2A284
Scattering of surface elastic waves at a vertical anisotropic layer, Quart J Mech Appl Math **51**(3) 439-459 (Aug 1998), 2A287
Sound transmission through periodically inhomogeneous anisotropic thin plates: Generalizations of Cremer's thin plate theory, Acustica **84**(4) 668-680 (Jul-Aug 1998), 3A208
Polarization, phase velocity, and NMO velocity of qP-waves in arbitrary weakly anisotropic media, Geophys **63**(5) 1754-1766 (Sep-Oct 1998), 3A218
Simple model calculation of elastic wave propagation in the austenitic steel, Nondestruct Test Eval **14**(6) 393-402 (Jul 1998), 3A219
Wave propagation in multilayered anisotropic media, Mech Res Commun **25**(5) 503-507 (Sep-Oct 1998), 3T220
Wave scattering from an interface crack in laminated anisotropic media, Mech Res Commun **25**(5) 509-517 (Sep-Oct 1998), 3T232
Three-dimensional wave propagation in composite cylindrical shells, Composite Struct **42**(2) 153-167 (Jun 1998), 3A622
Propagation characteristics of blast-induced shock waves in a jointed rock mass, Soil Dyn Earthquake Eng **17**(6) 407-412 (Aug 1998), 3A683
Interacting longitudinal-shear waves in large elastic deformation of a composite cylindrical laminate, Int J Non-Linear Mech **34**(3) 405-414 (May 1999), 5A182
Transient bending wave propagation in anisotropic plates, J Appl Mech **65**(4) 930-938 (Dec 1998), 5A190
Transient torsional wave propagation in a transversely isotropic tube, Arch Appl Mech **68**(9) 589-596 (Nov 1998), 5A191
Diffraction of SH-waves by a Griffith crack in an infinite transversely orthotropic medium, Appl Math Lett **12**(1) 57-61 (Jan 1999), 5A195
Investigation of electromagnetic shock-wave structure in anisotropic ferromagnets with easy axis, Wave Motion **29**(1) 23-34 (Jan 1998), 5A212
Propagation of elastic waves in orthotropic cylinders (Russian), Prikl Mekh (Appl Mech) **34**(7) 34-41 (1998), 6A221
Propagation of Rayleigh waves in an elastic half-space of orthotropic material, Appl Math Comput **99**(1) 61-69 (Mar 1999), 6A222
Synthetic tridimensionnal representation of slowness surfaces of anisotropic materials, Acustica **84**(6) 1047-1054 (Nov-Dec 1998), 6A223
Transducer field modeling in anisotropic media by superposition of Gaussian base functions, J Acoust Soc Am **105**(2) 633-638 (Feb 1999), 7A212
Propagation of wideband acoustic pulses in unidirectional fiber composites, Russian Ultrasonics **28**(5) 217-226 (1998), 9A224
Selection of modes of a piezoelectric layer in a composite acoustic resonator using bulk acoustic waves, Russian Ultrasonics **28**(5) 211-216 (1998), 9A225
Acoustooptic interaction in media with acoustic anisotropy, Russian Ultrasonics **28**(6) 277-287 (1998), 9A231
Weak-contrast edge and vertex diffractions in anisotropic elastic media, Wave Motion **29**(4) 363-373 (May 1999), 9A232
Two-dimensional torsional wave propagation in layered transversely isotropic cylinders, JSME Int J Ser A **41**(2) 199-203 (Apr 1998), 10A249
Propagation and attenuation of seismic body waves in initially stressed dissipative medium, Acta Geophys Polonica **46**(3) 351-366 (1998), 10T255
Analytical simulation of stress wave propagation in composite materials, Composite Struct **45**(2) 125-129 (Jun 1999), 11A235
Amplification of waves by an orthotropic basin: Sagittal plane motion, Earthquake Eng Struct Dyn **28**(6) 565-584 (Jun 1999), 11A249
Characterization of fractures in shallow granite from the modeling of the anisotropy and attenuation of seismic waves, Bull Seismol Soc Am **89**(3) 706-717 (Jun 1999), 11A673
Three-dimensional moveout velocity analysis and parameter estimation for orthorhombic media, Geophys **64**(3) 820-837 (May-Jun 1999), 11A1550

158L. Layered and nonhomogeneous media

Attenuation of Love waves in a two-layered half-space, Wave Motion **28**(2) 191-193 (Sep 1998), 1A197
Harmonic wave in disturbed system of periodic elastic layers, Eng Trans **45**(3-4) 471-486 (1997), 1A214
Dispersion of waves in composite laminates with transverse matrix cracks, FE and plate theory computations, J Appl Mech **65**(3) 588-595 (Sep 1998), 2A290
Existence of eigenfrequencies in the theory of two-component elastic mixtures, Quart J Mech Appl Math **51**(3) 427-437 (Aug 1998), 2A291
Explicit finite-difference procedures for elastodynamic analysis of layered media, Arch Appl Mech **68**(7-8) 489-500 (Sep 1998), 3A59
Wave propagation in multilayered anisotropic media, Mech Res Commun **25**(5) 503-507 (Sep-Oct 1998), 3T220
Stress effect on boundary conditions and elastic wave propagation through an interface between anisotropic media, J Acoust Soc Am **104**(4) 1992-2003 (Oct 1998), 3A221
Vibrations of the surface of an elastic double-layered half-space with a periodic system of cracks, J Appl Math Mech **62**(2) 297-302 (1998), 3A222
Propagation and localization of Rossby waves over random topography: Two-layer model, Wave Motion **28**(4) 333-352 (Dec 1998), 3A227
Class of low-frequency modes in laterally homogeneous fluid-solid media, SIAM J Appl Math **58**(5) 1462-1508 (Oct 1998), 3A249
Seismic Wave Propagation and Scattering in the Heterogeneous Earth (Springer-Verlag, New York, 1998) 4R35
Dilatation of S waves in smoothly inhomogeneous isotropic elastic media, J Acoust Soc Am **104**(5) 2592-2595 (Nov 1998), 4A209
Hybrid method for Love wave dispersion in vertically inhomogeneous media, Pure Appl Geophys **152**(3) 523-538 (Oct 1998), 4A210
Propagation of SH waves in a layered half-space with a frictional contact interface, Bull Seismol Soc Am **88**(5) 1300-1310 (Oct 1998), 4A211
Assessment of the coefficient of the earth pressure at rest from shear wave velocity meaurements, Geotechnique **48**(5) 657-666 (Oct 1998), 4A1487
Interaction of waves in solid mixtures, Appl Mech Rev **52**(2) 35-74 (Feb 1999), 5A192
Simplified models of transient elastic waves in finite axisymmetric layered media, J Acoust Soc Am **104**(6) 3369-3384 (Dec 1998), 5A193
Elastic waves in nonhomogeneous media under 2D conditions - I: Fundamental solutions, Soil Dyn Earthquake Eng **18**(1) 19-30 (Jan 1998), 6A224
Elastic waves in nonhomogeneous media under 2D conditions - II: Numerical implementation, Soil Dyn Earthquake Eng **18**(1) 31-46 (Jan 1998), 6A225
Seismic signal strength of chemical explosions, Bull Seismol Soc Am **88**(6) 1511-1524 (Dec 1998), 6A240
Incident boundary and averaged amplification factors of SH wave for ground with irregular subsurface topography (Japanese), Proc JSCE **605**(I-45) 91-103 (Oct 1998), 6A1485
Elastic waves for the characterization of materials, Mech Mat **31**(3) 165-233 (Mar 1999), 7T213
Axial shear waves in fiber-reinforced composites with multiple interfacial layers between fiber core and matrix, Mech Mat **31**(2) 117-129 (Feb 1999), 7A530
Passing through the elastic wave barrier by a load moving uniformly along a smoothly inhomogeneous elastic system, Z Angew Math Mech **79**(3) 179-183 (1999), 8A131
Effect of irreversible phase change on shockwave propagation, J Mech Phys Solids **47**(4) 763-783 (Apr 1999), 8A204
Asymptotic averaged model of nonlinear long waves propagation in media with a regular structure, Int J Non-Linear Mech **34**(4) 643-654 (Jul 1999), 9A215
Dynamics of disturbed system of periodic elastic layer, Machine Dyn Prob **20** 303-308 (1998), 9T233
Two-dimensional torsional wave propagation in layered transversely isotropic cylinders, JSME Int J Ser A **41**(2) 199-203 (Apr 1998), 10A249
Direct and inverse problems of wave propagation through a 1D inhomogeneous medium, European J Appl Math **10**(1) 79-96 (Feb 1999), 10A256
Feasibility of truncated perturbation expansions to approximate Rayleigh-wave eigenfrequencies and eigenfunctions in heterogeneous media, Bull Seismol Soc Am **89**(2) 433-441 (Apr 1999), 10A257
One-dimensional wave propagation in a functionally graded elastic medium, J Sound Vib **222**(3) 453-487 (May 1999), 10A258
Piezoelectric interfacial waves in two-medium structures, Arch Acoust **23**(4) 521-531 (1998), 10A259
Source comparisons between nuclear and chemical explosions detonated at Rainier Mesa, Nevada test site, Bull Seismol Soc Am **89**(2) 409-422 (Apr 1999), 10A1548
Forced response of sandwich ring with viscoelastic core subjected to traveling loads, J Acoust Soc Am **106**(1) 202-210 (Jul 1999), 12A182
Guided circumferential waves in layered cylinders, Int J Eng Sci **37**(11) 1369-1387 (Sep 1999), 12A183
Wave motion in an isotropic elastic layer generated by a time-harmonic point load of arbitrary direction, J Acoust Soc Am **106**(1) 83-90 (Jul 1999), 12A184
Large internal stresses in particle-reinforced composites subjected to dynamic loads, Composites Sci Tech **59**(9) 1361-1367 (Jul 1999), 12A641

158M. Granular and porous media

Pragmatic wave equations of transversely isotropic saturated soils (Chinese), J Vib Eng **11**(2) 170-176 (Jun 1998), 1A215
Deformation build up within a granular assemblage during an intense earthquake, J Earthquake Eng **2**(3) 419-441 (Jul 1998), 2A652
General absorbing boundary conditions for dynamic analysis of fluid-saturated porous media, Soil Dyn Earthquake Eng **17**(6) 397-406 (Aug 1998), 3A223
Inhomogeneous plane waves, mechanical energy flux, and energy dissipation in a two-phase porous medium, Z Angew Math Mech **78**(9) 617-625 (1998), 3A224
Plane shear waves under a periodic boundary disturbance in a saturated granular medium, Physica D **121**(1-2) 193-212 (Oct 1998), 3A225
Wave propagation in layered dry, saturated and unsaturated poroelastic media, Int J Solids Struct **35**(34-35) 4753-4778 (Dec 1998), 3A226
Numerical Modelling in Applied Geodynamics (Wiley, UK, 1998) 6R38
Wave propagation-impediment in a soil stratum over rigid base due to impulse-moving loads (Japanese), Proc JSCE **605**(I-45) 161-169 (Oct 1998), 6A737
Influence of gravity on the propagation of waves in granular medium, Appl Math Comput **101**(2-3) 269-280 (Jun 1999), 9A234
Numerical simulation of transient waves in a heterogeneous soil layer, Comput Mech **23**(1) 75-86 (Feb 1999), 9A754
Importance of flow condition on seismic waves at a saturated porous solid boundary, J Sound Vib **221**(3) 391-413 (Apr 1999), 9A1485
Dynamic Soil-Structure Interaction (Elsevier Sci BV, Netherlands, 1998) 10N18
Interaction of elastic waves with a fluid-saturated porous solid boundary, J Theor Appl Mech **36**(3) 561-580 (1998), 10A260
Time of existence of weak discontinuity waves in poroelastic materials, Arch Mech **50**(3) 657-669 (1998), 10A261
Uni-axial liquefaction wave in saturated sands, J Theor Appl Mech **36**(3) 681-701 (1998), 10A262
Love wave-induced liquefaction in a saturated sand layer, J Theor Appl Mech **36**(3) 723-744 (1998), 10A772
Comparison between theoretical and empirical models for elastic porous materials, Appl Acoust **58**(3) 255-260 (Nov 1999), 11A236
Empirical model for rigid-frame porous materials with low porosity, Appl Acoust **58**(3) 295-304 (Nov 1999), 11A237
Waves in Materials with Microstructure (Russian) (Natl Acad of Sci, Kiev, 1998) 12N10
Surface waves in a porous medium with a structure, Stud Geotech Mech **20**(1-2) 27-41 (1998), 12T185
Uni-axial compaction waves in sand, Stud Geotech Mech **20**(3-4) 3-16 (1998), 12A186
Wave propagation in saturated ground using the volume fractions, Acta Mech Solida Sinica **12**(2) 144-153 (Jun 1999), 12A187

158N. Random waves or media

Analytical and numerical studies of angular correlation function of waves scattered from random distributed cylinders, Waves in Random Media **8**(3) 269-281 (Jul 1998), 1A216
Analytical and numerical studies of angular correlation function of waves scattered from randomly distributed cylinders, Waves in Random Media **8**(3) 269-281 (Jul 1998), 1A217
Forward and Markov approximation: The strong-intensity-fluctuations regime revisited, Waves in Random Media **8**(3) 303-314 (Jul 1998), 1A218
Forward and Markov approximation: The strong-intensity-fluctuations regime revisited, Waves in Random Media **8**(3) 303-314 (Jul 1998), 1A219
Multiple scattering of HF radio waves propagating across the sea surface, Waves in Random Media **8**(3) 283-302 (Jul 1998), 1A220
Multiple scattering of HF radio waves propagating across the sea surface, Waves in Random Media **8**(3) 283-302 (Jul 1998), 1A221
Numerical technique for solving the coupled radiative transfer and heat equations in a random medium with plane geometry, Waves in Random Media **8**(3) 339-349 (Jul 1998), 1A222
Numerical technique for solving the coupled radiative transfer and heat equations in a random medium with plane geometry, Waves in Random Media **8**(3) 339-349 (Jul 1998), 1A223
Parabolic equation formulation via a singular perturbation technique and its application to scattering from irregular surfaces, Waves in Random Media **8**(3) 315-328 (Jul 1998), 1A224
Parabolic equation formulation via a singular perturbation technique and its application to scattering from irregular surfaces, Waves in Random Media **8**(3) 315-328 (Jul 1998), 1A225
Quasi-geometrical optics methods in the theory cf wave propagation through a randomly inhomogeneous layer, Waves in Random Media **8**(3) 329-338 (Jul 1998), 1A226
Quasi-geometrical optics methods in the theory of wave propagation through a randomly inhomogeneous layer, Waves in Random Media **8**(3) 329-338 (Jul 1998), 1A227
Theory of randomly inhomogeneous waveguides with slight material dispersion - I: Single-mode waveguides, Waves in Random Media **8**(3) 351-367 (Jul 1998), 1A228
Theory of randomly inhomogeneous waveguides with slight material dispersion - II: Parabolic graded-index fibers, Waves in Random Media **8**(3) 369-384 (Jul 1998), 1A229
Theory of randomly inhomogeneous waveguides with slight material dispersion - I: Single-mode waveguides, Waves in Random Media **8**(3) 351-367 (Jul 1998), 1A230
Theory of randomly inhomogeneous waveguides with slight material dispersion - II: Parabolic graded-index fibers, Waves in Random Media **8**(3) 369-384 (Jul 1998), 1A231
Propagation and localization of Rossby waves over random topography: Two-layer model, Wave Motion **28**(4) 333-352 (Dec 1998), 3A227
Effect of pulse entrapping on diffuse reflection from a resonant random medium: Exact solution to the scalar albedo problem, Waves in Random Media **8**(4) 451-463 (Oct 1998), 4A212
Radiative transfer in a layer of magnetized plasma with random irregularities, Waves in Random Media **8**(4) 421-436 (Oct 1998), 4A213
Theoretical and computational aspects of scattering from rough surfaces: 1D perfectly reflecting surfaces, Waves in Random Media **8**(4) 385-414 (Oct 1998), 4A214
Waves in resonant random media, Waves in Random Media **8**(4) 415-420 (Oct 1998), 4A215
Effect of a pulse entrapping on weak localization of waves in a resonant random medium, Waves in Random Media **9**(1) 13-26 (Jan 1999), 7A214
Effect of absorption on surface speckles in random media, Waves in Random Media **9**(1) 27-36 (Jan 1999), 7A215
Pomraning-Eddington approximation for radiative transfer in a homogeneous solid cylinder, Waves in Random Media **9**(1) 37-52 (Jan 1999), 7A216
Pulse propagation of acoustic waves scattered in a channel, Waves in Random Media **9**(1) 1-11 (Jan 1999), 7A297
Scattering of a TM plane wave from periodic random surfaces, Waves in Random Media **9**(1) 53-67 (Jan 1999), 7A301
Can the trace formula describe weak localization, Waves in Random Media **9**(2) 179-200 (Apr 1999), 11A238

Distribution of complex eigenvalues for symplectic ensembles of non-Hermitian matrices, Waves in Random Media **9**(2) 71-82 (Apr 1999), 11A239
Distribution of the quantum mechanical time-delay matrix for a chaotic cavity, Waves in Random Media **9**(2) 91-104 (Apr 1999), 11A240
Electronic localization in disordered systems, Waves in Random Media **9**(2) 255-269 (Apr 1999), 11A241
Fluctuation of inverse compressibility for electronic systems with random capacitive matrices, Waves in Random Media **9**(2) 163-178 (Apr 1999), 11A242
Interaction effects and phase relaxation in disordered systems, Waves in Random Media **9**(2) 201-239 (Apr 1999), 11A243
Interference phenomena in electronic transport through chaotic cavities: An information-theoretic approach, Waves in Random Media **9**(2) 105-146 (Apr 1999), 11A244
Numerical study of the addition spectrum of disordered quantum dots, Waves in Random Media **9**(2) 147-162 (Apr 1999), 11A245
Orbital magnetism in disordered mesoscopic metals, Waves in Random Media **9**(2) 271-280 (Apr 1999), 11A246
Parametric number variance of disordered systems in the multifractal regime, Waves in Random Media **9**(2) 83-90 (Apr 1999), 11A247
Quantum coherent effects in Anderson insulators, Waves in Random Media **9**(2) 241-253 (Apr 1999), 11A248
Static friction threshold effects on hysteresis and frequency spectra in rocks, J Acoust Soc Am **105**(6) 3097-3107 (Jun 1999), 12A1535

158O. Absorption

Absorption of longitudinal sound waves in polycrystalline titanium in the temperature region 120 - 220 K, Russian Ultrasonics **28**(1) 28-32 (1998), 1A204

158Q. Reflection, refraction, diffraction, and scattering

Echo signal from corner reflectors of 0.5 - 3 mm depth, Russian Ultrasonics **27**(6) 349-358 (1997), 1A207
Removal of guided waves from seismic data in laterally varying media, Wave Motion **28**(2) 173-189 (Sep 1998), 1A213
Analytical and numerical studies of angular correlation function of waves scattered from randomly distributed cylinders, Waves in Random Media **8**(3) 269-281 (Jul 1998), 1A217
Multiple scattering of HF radio waves propagating across the sea surface, Waves in Random Media **8**(3) 283-302 (Jul 1998), 1A221
Parabolic equation formulation via a singular perturbation technique and its application to scattering from irregular surfaces, Waves in Random Media **8**(3) 315-328 (Jul 1998), 1A224
Parabolic equation formulation via a singular perturbation technique and its application to scattering from irregular surfaces, Waves in Random Media **8**(3) 315-328 (Jul 1998), 1A225
Scattering of surface elastic waves at a vertical anisotropic layer, Quart J Mech Appl Math **51**(3) 439-459 (Aug 1998), 2A287
Diffraction of TE waves by a metallic cap located on a dielectric sphere: Ring source excitation outside the sphere, Wave Motion **28**(3) 259-282 (Oct 1998), 2A292
Mode conversion of a guided wave by a part-circumferential notch in a pipe, J Appl Mech **65**(3) 649-656 (Sep 1998), 2A293
Reflection of guides waves from circumferential notches in pipes, J Appl Mech **65**(3) 635-641 (Sep 1998), 2A294
Transient response due to a pair of antiplane point impact loading on the faces of a finite Griffith crack at the bimaterial interface of anisotropic solids, Int J Eng Sci **36**(11) 1197-1213 (Sep 1998), 2A295
Analyticity of the solution of the equation of elasticity in the exterior region of the cavity with respect to the wave number, Z Angew Math Mech **78**(9) 627-634 (1998), 3A228
Investigation of the scattering of harmonic elastic waves by a finite crack using the non-local theory, Mech Res Commun **25**(5) 519-528 (Sep-Oct 1998), 3T229
Multichannel resonant scattering theory applied to the acoustic scattering by an eccentric elastic cylindrical shell immersed in a fluid, Wave Motion **28**(4) 297-318 (Dec 1998), 3A230
Torsional wave scattering from a diameter step in a rod, J Acoust Soc Am **104**(4) 2015-2024 (Oct 1998), 3A231
Wave scattering from an interface crack in laminated anisotropic media, Mech Res Commun **25**(5) 509-517 (Sep-Oct 1998), 3T232
Seismic Wave Propagation and Scattering in the Heterogeneous Earth (Springer-Verlag, New York, 1998) 4R35
Multi-parameter inversion of elastic wave with surface reflection profiling in half-space (Chinese), J Huazhong Univ Sci Tech **26**(7) 27-29 (Jul 1998), 4A205
Theoretical and computational aspects of scattering from rough surfaces: 1D perfectly reflecting surfaces, Waves in Random Media **8**(4) 385-414 (Oct 1998), 4A214
Scattering by an elastic sphere embedded in an elastic isotropic medium, J Acoust Soc Am **104**(5) 2836-2844 (Nov 1998), 4A216
Antiplane waves in an elastic medium with a biperiodic system of cavities, J Appl Math Mech **62**(3) 443-451 (1998), 5A194
Diffraction of SH-waves by a Griffith crack in an infinite transversely orthotropic medium, Appl Math Lett **12**(1) 57-61 (Jan 1999), 5A195
Distortion of a harmonic elastic wave reflected from a dry friction support, J Appl Mech **65**(4) 851-857 (Dec 1998), 5A196
Reflection of plane waves from the boundary of a prestressed compressible elastic half-space, IMA J Appl Math **61**(1) 61-90 (Sep 1998), 5A197
Fundamentals of Ultrasonic Nondestructive Evaluation: A Modeling Approach (Plenum, New York, 1998) 6R14
Boundary element method for calculating elastic waves scattered by axisymmetric inclusion, Acta Mech Solida Sinica **11**(4) 359-364 (1998), 6A65
Diffraction of plane deformation waves on a round cylindrical cavity with rigid fixed inclusion in rectilinear orthotropic medium (Russian), Prikl Mekh (Appl Mech) **34**(9) 55-63 (1998), 6A226
Scattering by small defects in the neighborhood of a fluid-solid interface, IMA J Appl Math **61**(2) 155-177 (Oct 1998), 6A227
Scattering from submerged objects by a hybrid asymptotic-boundary integral equation method, Wave Motion **29**(2) 137-156 (Feb 1999), 6A228
Scattering of plane elastic waves by a 1D periodic surface, Math Methods Appl Sci **22**(1) 55-72 (Jan 1999), 6A229
Elastic waves for the characterization of materials, Mech Mat **31**(3) 165-233 (Mar 1999), 7T213
Elastodynamic scattering from a thin-walled inclusion of low rigidity, Int J Eng Sci **37**(3) 331-345 (Feb 1999), 7A217
Weak elastic-wave scattering from massive sulfide orebodies, Geophys **64**(1) 289-299 (Jan-Feb 1999), 7A218
Elastic wave scattering by a cylindrical shell, Wave Motion **29**(3) 195-209 (Apr 1999), 8A219
Resonant frequencies of the scattering of elastic waves by 3D cracks, J Appl Math Mech **62**(5) 803-806 (1998), 8A220
Wave propagation in elastic media with cracks - II: Transient nonlinear response of a cracked matrix, Eur J Mech A **18**(1) 159-175 (Jan-Feb 1999), 8A221
Investigation of the scattering of harmonic elastic antiplane shear waves by a finite crack using the non-local theory, Int J Fracture **91**(1) 13-22 (1998), 9A235
Investigation of the scattering of harmonic elastic shear waves by a finite crack using the nonlocal theory, Int J Eng Sci **37**(5) 609-620 (Apr 1999), 9A236
Malyuzhinets theory for scattering from wedge boundaries: A review, Wave Motion **29**(4) 313-340 (May 1999), 9A237
Wave Propagation in Elastic Solids with Cracks (Comput Mech, Billerica MA, 1998) 10R7
Far-field analysis of the Malyuzhinets solution for plane and surface waves diffraction by an impedance wedge, Wave Motion **30**(1) 69-89 (Jul 1999), 10A263
Numerical and asymptotic approaches to scattering problems involving finite elastic plates in structural acoustics, Wave Motion **30**(1) 17-41 (Jul 1999), 10A264
Observations in support of Rg scattering as a source for explosion S waves: Regional and local recordings of the 1997 Kazakhstan depth of burial experiment, Bull Seismol Soc Am **89**(2) 544-549 (Apr 1999), 10T265
Scattering of Love waves by a surface-breaking crack in piezoelectric layered media, JSME Int J Ser A **41**(1) 40-48 (Jan 1998), 10A266
Stability and instability of solitary waves for a nonlinear dispersive system, Nonlinear Anal **36**(8) 1015-1035 (Jun 1999), 10T267
Amplification of waves by an orthotropic basin: Sagittal plane motion, Earthquake Eng Struct Dyn **28**(6) 565-584 (Jun 1999), 11A249
Evaluation of scattered wave and a stress concentration field in a damaged solder joint, J Sound Vib **223**(2) 213-230 (Jun 1999), 11A250
Multi-parameter inversion of elastic wave in half-space, Acta Mech Solida Sinica **12**(2) 129-135 (Jun 1999), 12A188
Three-dimensional dynamic stress intensity factors at three rectangular cracks in an infinite elastic medium subjected to a time-harmonic stress wave, Arch Appl Mech **69**(4) 286-298 (May 1999), 12A817

158Y. Computational techniques

Microlocal analysis of migration, Wave Motion **28**(2) 149-172 (Sep 1998), 1A198
Numerical technique for solving the coupled radiative transfer and heat equations in a random medium with plane geometry, Waves in Random Media **8**(3) 339-349 (Jul 1998), 1A222
Numerical technique for solving the coupled radiative transfer and heat equations in a random medium with plane geometry, Waves in Random Media **8**(3) 339-349 (Jul 1998), 1A223
Quasi-geometrical optics methods in the theory of wave propagation through a randomly inhomogeneous layer, Waves in Random Media **8**(3) 329-338 (Jul 1998), 1A227
Accuracy barrier for stable three-time-level difference schemes for hyperbolic equations, IMA J Numer Anal **18**(3) 445-484 (Jul 1998), 1A232
Acoustic resonances in the presence of radial fins in circular cylindrical waveguides, Wave Motion **28**(2) 99-117 (Sep 1998), 1A233
Elastodynamic BEM for piecewise homogeneous media, Int J Numer Methods Eng **42**(6) 1045-1069 (Jul 1998), 1A234
Explicit Kirchhoff-Helmholtz integrals and their accurate numerical implementation, Wave Motion **28**(2) 119-148 (Sep 1998), 1A235
Semi-discrete method for solving high-dimension wave equation, Appl Math Mech **19**(5) 489-495 (May 1998), 1A236
Unit-impulse response of unbounded medium by scaled boundary FEM, Comput Methods Appl Mech Eng **159**(3-4) 355-367 (Jul 1998), 1A237
Absorbing boundary conditions, Appl Numer Math **27**(4) 331-557 (Aug 1998), 1A330
Stresses distribution in a magneto-thermoelastic medium with cylindrical hole, Eng Trans **45**(3-4) 331-348 (1997), 1A1369
Approximate evolution of lump initial conditions for the Benjamin-Ono equation, Wave Motion **28**(3) 195-202 (Oct 1998), 2A296
Time domain BEM for 3D elastodynamic analysis using the B-spline fundamental solutions, Comput Mech **22**(1) 108-115 (Jul 1998), 2A297
New formulation of the general solution to Burgers' equation, Wave Motion **28**(4) 319-332 (Dec 1998), 3A233
Reciprocity properties of one-way propagators, Geophys **63**(5) 1795-1798 (Sep-Oct 1998), 3A1458
Elastodynamic finite integration technique for waves in cylindrical geometries, J Acoust Soc Am **104**(5) 2604-2614 (Nov 1998), 4A217
Generalized Galerkin approximations of elastic waves with absorbing boundary conditions, Comput Methods Appl Mech Eng **163**(1-4) 323-341 (Sep 1998), 4A218
Non-reflecting boundary conditions in unbounded elastic solids, Comput Methods Appl Mech Eng **163**(1-4) 123-139 (Sep 1998), 4A219
Boundary value problems of elastodynamics under stationary moving forces using boundary integral equation method, Eng Anal Boundary Elements **22**(4) 327-331 (Dec 1998), 5A198
Comparison of the nonhomogenized dynamic method of cells and a hydrodynamic calculation for wave propagation, Wave Motion **29**(1) 47-61 (Jan 1998), 5A199
Improved FEMs for elastic waves, Comput Methods Appl Mech Eng **166**(1-2) 143-164 (Nov 1998), 5A200
New version of boundary integral equations and their application to dynamic 3D problems of the theory of elasticity, J Appl Math Mech **62**(3) 427-434 (1998), 5A201
Spatially periodic fundamental solutions of the theory of oscillations, J Appl Math Mech **62**(3) 489-491 (1998), 5A202
Theory of the propagation of TEM-pulses in dispersive bi-isotropic slabs, Wave Motion **29**(1) 1-21 (Jan 1998), 5A213
2.5D modeling of seismic wave propagation: Boundary condition, stability criterion, and efficiency, Geophys **63**(6) 2082-2090 (Nov-Dec 1998), 5A1467
PP-wave reflection coefficients in weakly anisotropic elastic media, Geophys **63**(6) 2129-2141 (Nov-Dec 1998), 5A1472
Efficient numerical algorithm for transient analysis of exterior scalar wave propagation in a homogeneous layer, Comput Methods Appl Mech Eng **167**(3-4) 261-273 (Dec 1998), 6A230
Modifications to the Lax-Wendroff scheme for hyperbolic systems with source terms, Int J Numer Methods Eng **44**(1) 27-40 (Jan 1999), 6A323
Time dependent adaptive FEM, J Brazilian Soc Mech Sci **20**(4) 587-595 (Dec 1998), 7A51
Applying FE analysis to the memory variable formulation of wave propagation in anelastic media, Geophys **64**(1) 300-307 (Jan-Feb 1999), 7A219
Complete energy conservation correction for the elastic parabolic equation, J Acoust Soc Am **105**(2) 687-692 (Feb 1999), 7A220
Elastic finite-difference method for irregular grids, Geophys **64**(1) 240-250 (Jan-Feb 1999), 7A221
Stress and velocity in 2D transient elastodynamic analysis by the BEM, Eng Anal Boundary Elements **23**(3) 233-245 (Mar 1999), 7A222
Boundary element method analysis of wave scattering in transversely isotropic solids, Int J Numer Methods Eng **44**(9) 1283-1300 (Mar 1999), 8A222
Influence matrix diagonal block elements for 2D elastodynamic problems, Int J Numer Methods Eng **44**(9) 1341-1358 (Mar 1999), 8A223
Numerical algorithm for dynamic problems involving fractional operators, JSME Int J Ser C **41**(3) 364-370 (Sep 1998), 9A220
Numerical analysis of nonlinear wave propagation in elastic submerged cables, J Offshore Mech Arctic Eng **121**(2) 116-125 (May 1999), 9A238
Wave Propagation in Elastic Solids with Cracks (Comput Mech, Billerica MA, 1998) 10R7
IUTAM Symposium on Computational Methods for Unbounded Domains (Kluwer, Netherlands, 1998) 10N8
Space-time FEM for elasto-plastic shock dynamics, J Sound Vib **222**(1) 65-84 (Apr 1999), 10A61
Numerical and asymptotic approaches to scattering problems involving finite elastic plates in structural acoustics, Wave Motion **30**(1) 17-41 (Jul 1999), 10A264
Note on a Fourth order finite difference scheme for the wave equation, J Sci Comput **13**(4) 461-469 (Dec 1998), 10A364
Wave approach to FE analysis of solids, Mech Res Commun **26**(2) 191-196 (Mar-Apr 1999), 11T44
Boundary element method in elastodynamics for geometrically axisymmetric problems, Appl Math Model **23**(6) 501-508 (Jun 1999), 11A73
Amplification of waves by an orthotropic basin: Sagittal plane motion, Earthquake Eng Struct Dyn **28**(6) 565-584 (Jun 1999), 11A249
Semi-analytical integration of sub-parametric elements used in the BEM for 3D elastodynamics, Comput Struct **71**(6) 595-615 (Jun 1999), 11A251
Stability of traveling waves: Dichotomies and eigenvalue conditions on finite intervals, Numer Functional Anal Optimization **20**(3-4) 201-244 (1999), 11A252
Solution of wave propagation problems by the cell discretization method, Comput Methods Appl Mech Eng **174**(1-2) 1-21 (May 1999), 11A339
Transparent boundary technique for numerical modeling of elastic waves, Geophys **64**(3) 963-966 (May-Jun 1999), 11A1551
Advanced BEM for axisymmetric elastodynamic analysis, Comput Methods Appl Mech Eng **175**(1-2) 53-70 (Jun 1999), 12A66
Computational schemes for nonlinear elastodynamics, Int J Numer Methods Eng **45**(6) 693-719 (Jun 1999), 12A189
Distortion of waves in a nonlinear magnetoelastic conductor, Arch Mech **50**(6) 1047-1053 (1998), 12A190
Dynamics of $\chi^{(2)}$ solitary waves: A multiple scales approach, Acta Phys Polonica A **95**(5) 705-718 (May 1999), 12A191
Elastodynamics by BEM: A new direct formulation, Int J Numer Methods Eng **45**(6) 721-740 (Jun 1999), 12A192
Explicit FEMs for symmetric hyperbolic equations, SIAM J Numer Anal **36**(3) 935-952 (Mar-May 1999), 12A193
Multi-wave transient and harmonic infinite elements for 2D unbounded domain problems, Comput Geotech **24**(3) 185-206 (1999), 12A194
Spectral element method for elastic wave equations: Application to 2D and 3D seismic problems, Int J Numer Methods Eng **45**(9) 1139-1164 (Jul 1999), 12A195
Spurious modes in FE discretizations of the wave equation may not be all that bad, Appl Numer Math **30**(4) 425-445 (Jul 1999), 12A333

158Z. Experimental techniques

Body waves recorded inside an electric half-space by an embedded, wideband velocity sensor, J Acoust Soc Am **104**(3-PT1) 1404-1412 (Sep 1998), 2A298
Measurement of prestress force in the rods of stressed timber bridges using stress waves, Mat Eval **56**(8) 977-981 (Aug 1998), 2A299
Extracting Rayleigh waves from noise using a differential optical interferometer, Res Nondestructive Eval **10**(3) 171-184 (1998), 2A902
Design and optimization of unipolar pressure pulse generators with a single transducer, J Acoust Soc Am **104**(5) 2790-2797 (Nov 1998), 4A220
In-plane laser-Doppler-velocimeter sensor head for the measurement of surface structural intensity, Acustica **84**(6) 1055-1065 (Nov-Dec 1998), 6A231
Non-contact estimation of thickness and elastic properties of metallic foils by the wavelet transform of laser-generated lamb waves, NDT&E Int **32**(1) 21-27 (Jan 1999), 6A997
Behavior of waves in high density polyethylene geomembranes: A laboratory study, Geotextiles Geomembranes **17**(2) 81-104 (Apr 1999), 8A212

Prediction of longitudinal disturbances in a multimode cylindrical waveguide, Exp Mech **39**(1) 36-42 (Mar 1999), 8A224

Applications of the wavelet transform for diagnostics of mechanical systems, Rev Francaise Mec **0**(1) 35-38 (Mar 1999), 10A244

Wavelet analysis of laser-generated surface waves in a layered structure with unbond regions, J Appl Mech **66**(2) 507-513 (Jun 1999), 10A252

Acoustic lens to measure wave velocities with the complex V(z) curve method, NDT&E Int **32**(4) 219-224 (Jun 1999), 10A958

160. IMPACT ON SOLIDS

160A. General theory

Controllability of boundary-value problems for quasilinear impulsive systems, Nonlinear Anal **34**(7) 1055-1065 (Dec 1998), 1A238

Boundedness of the solution to impulsive system (Russian), Prikl Mekh (Appl Mech) **33**(7) 89-94 (1997), 2A300

Aspects of the dynamical behavior of the impact force generator, Chaos Solitons Fractals **9**(8) 1307-1320 (Aug 1998), 4A221

Investigation of the dynamic system with impacts, Chaos Solitons Fractals **9**(8) 1321-1338 (Aug 1998), 4A222

New algebraic rigid-body collision law based on impulse space considerations, J Appl Mech **65**(4) 939-951 (Dec 1998), 5A203

Two interpretations of rigidity in rigid-body collisions, J Appl Mech **65**(4) 894-900 (Dec 1998), 5A204

Applied Mechanics Division Book of Abstracts - 1998 (ASME, New York, 1998) 6N6

Local wave theory of the impact of elastic bodies plane problem in the approximation of ideal liquid (Russian), Prikl Mekh (Appl Mech) **34**(10) 84-92 (1998), 6T232

Structures Under Shock and Impact V (Comput Mech, Billerica MA, 1998) 7N12

Response of curved laminated panels subjected to transverse impact loads, Int J Solids Struct **36**(9) 1311-1327 (Mar 1999), 7A162

Kinetostatics and analysis methods for the impact problem, Eur J Mech A **18**(2) 319-329 (Mar-Apr 1999), 10A268

Method for investigation of frictional properties at impact loading, J Sound Vib **222**(4) 669-677 (May 1999), 10A269

160B. Dynamic contact problems

Hertzian contact vibrations under random external excitation and surface roughness, J Sound Vib **214**(4) 779-783 (Jul 1998), 1T125

Analytical solutions of impact problems of rod structures with springs, Comput Methods Appl Mech Eng **160**(3-4) 315-323 (Jul 1998), 1A239

Behavior of a yawed projectile penetrating a thin plate, Int J Impact Eng **21**(7) 597-608 (Aug 1998), 1A240

Crash behavior of box columns filled with aluminum honeycomb or foam, Comput Struct **68**(4) 343-367 (Aug 1998), 1A241

Effects of strain hardening and strain-rate sensitivity on the penetration of aluminum targets with spherical-nosed rods, Int J Solids Struct **35**(28-29) 3737-3753 (Oct 1998), 1A242

Failure analysis of laminated composite cylindrical-spherical shell panels subjected to low-velocity impact, Comput Struct **68**(6) 627-641 (Sep 1998), 1A243

New analytical model to simulate impact onto ceramic-composite armors, Int J Impact Eng **21**(6) 461-471 (Jul 1998), 1A244

Penetration of concrete targets with ogive-nose steel rods, Int J Impact Eng **21**(6) 489-497 (Jul 1998), 1A245

Penetration of tungsten alloy rods into shallow-cavity steel targets, Int J Impact Eng **21**(6) 451-460 (Jul 1998), 1A246

Break of elastic filament under transverse impact with a wedge (Russian), Prikl Mekh (Appl Mech) **33**(7) 79-83 (1997), 2T301

Direct and inverse problems encountered in vibro-impact oscillations of a discrete system, J Sound Vib **216**(2) 227-250 (Sep 1998), 3A105

Remote identification of impact forces on loosely supported tubes - Part 2: Complex vibro-impact motions, J Sound Vib **215**(5) 1043-1064 (Sep 1998), 3A147

Effect of flexibility on low velocity impact response, J Sound Vib **217**(3) 563-578 (Oct 1998), 4A223

Impact dampers in application for tube, rod and rope structures, Mech Machine Theory **34**(2) 243-253 (Feb 1999), 4A224

Penetration of asymmetric long-rod projectiles at 2.6 km-s, Int J Impact Eng **21**(8) 625-643 (Sep 1998), 4A225

Two interpretations of rigidity in rigid-body collisions, J Appl Mech **65**(4) 894-900 (Dec 1998), 5A204

Adiabatic shear bands in the Taylor impact test for a WHA rod, Int J Plasticity **14**(9) 841-854 (1998), 5A205

Cavity models for solid and hollow projectiles, Int J Impact Eng **21**(10) 881-894 (Nov 1998), 5A206

Design for multi-hit capability, Int J Impact Eng **21**(10) 905-908 (Nov 1998), 5A207

Energy-based coefficient of restitution for planar impacts of slender bars with massive external surfaces, J Appl Mech **65**(4) 952-962 (Dec 1998), 5A208

Exact solution for the first stage of frictional collision of a die and an elastic half-space, Quart J Mech Appl Math **51**(4) 563-576 (Nov 1998), 5A209

Optimization of mechanisms and the effect of collisions, Mech Struct Machines **26**(4) 401-421 (1998), 5A866

Crashworthiness of Composite Thin-Walled Structural Components (Technomic, Lancaster PA, 1998) 6R3

Axisymmetrical problem of impact of a thin elastic spherical shell against the surface of compressible liquid allowing for the separation (Russian), Prikl Mekh (Appl Mech) **34**(9) 19-27 (1998), 6A233

Contact mechanics in multibody systems, Multibody Syst Dyn **2**(4) 335-354 (Dec 1998), 6A234

Dynamic response to ring-stiffened cylindrical shells under non-uniform and impulsive loading (Chinese), J Huazhong Univ Sci Tech **26**(10) 22-25 (Oct 1998), 6A235

Oblique elastic-plastic impact between rough cylinders in plane strain, Int J Eng Sci **37**(1) 97-122 (Jan 1999), 6A236

Optimal nose geometry for a rigid penetrator, Comput Mech **22**(5) 413-417 (Dec 1998), 6A237

Hydrodynamic approximation for long-rod penetration, Int J Impact Eng **22**(1) 23-43 (Jan 1999), 7A223

Impact damage in composite aircraft structures: Experimental testing and numerical simulation, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 245-259 (1998), 7A224

Method for calculating the stress-strain state in the general boundary value problem of metal forming - Part 2: Impact of a bar against a rigid obstacle, Int J Solids Struct **36**(9) 1263-1275 (Mar 1999), 7A504

Impact loads due to wheel flats and shells, Vehicle Syst Dyn **31**(1) 1-22 (Jan 1999), 7A874

Anomalous frictional behavior in collisions of thin disks, J Appl Mech **66**(1) 146-152 (Mar 1999), 8A225

Characterization of interfacial forces in metal-to-metal contact under harmonic excitation, J Sound Vib **220**(2) 365-377 (Feb 1999), 8T226

Non-deal projectile impact on targets, Int J Impact Eng **22**(2-3) 95-395 (Feb-Mar 1999), 8A227

Two-dimensional axisymmetric numerical analysis of a bar-bar tensile impact apparatus by elastoplastic FEM, J Sound Vib **220**(5) 787-806 (Mar 1999), 8A228

Modeling of the Taylor cylinder impact test for orthotropic textured materials - Experiments and simulations, Int J Plasticity **15**(2) 139-166 (1999), 9A239

Modeling, simulation and experimental verification of contact-impact dynamics in flexible mutli-body systems, J Sound Vib **221**(4) 709-732 (Apr 1999), 9A240

Transient sound fields from impacted plates: Comparison between numerical simulations and experiments, J Sound Vib **221**(3) 471-490 (Apr 1999), 9A241

Asymmetric hydrodynamic impact and dynamic response of vessels, J Offshore Mech Arctic Eng **121**(2) 83-89 (May 1999), 9A1255

Analysis of golf impact phenomenon and ball trajectory, JSME Int J Ser C **41**(4) 822-828 (Dec 1998), 9A1605

Prediction of resonant response of shrouded blades with 3D shroud constraint, J Eng Gas Turbines Power **121**(3) 523-529 (Jul 1999), 10A199

Vibrations of multilayer plates under the effect of impulse loads; 3D theory, Int J Solids Struct **36**(22) 3391-3402 (Aug 1999), 10A206

Modification to the mathematical model of perforation by Dikshit and Sundararajan, Int J Impact Eng **22**(5) 543-550 (May 1999), 10A270

Research of the field of dynamic stresses caused by impulse loading (Russian), Prikl Mekh (Appl Mech) **35**(2) 65-69 (1999), 10T271

Rocking-sliding of a rigid block: Friction influence on free motion, Eng Trans **46**(2) 143-164 (1998), 10A272

Role of nose profile in long-rod penetration, Int J Impact Eng **22**(5) 551-557 (May 1999), 10A273

Analysis of dynamic failure of plastic spherical shells under local impact, J Beijing IT **8**(1) 36-41 (Mar 1999), 12A196

Quantitative prediction of impact forces in elastomers, J Eng Mat Tech **121**(3) 294-304 (Jul 1999), 12A197

Numerical modeling of the impact on water of a flexible structure by explicit FEM: Comparisons with Radioss numerical results and experiments, Aerospace Sci Tech **3**(2) 83-91 (Feb 1999), 12A203

160C. Explosive loading

Two and three dimensional computer modeling of explosive formation of projectiles, Appl Mech Eng **2**(4) 569-595 (1997), 1A247

Fabrication of bimetallic rods by explosive cladding and warm extrusion, J Mat Processing Tech **83**(1-3) 48-53 (Nov 1998), 3A474

Dynamic response of anisotropic thin-walled beams to blast and harmonically oscillating loads, Int J Impact Eng **21**(8) 663-682 (Sep 1998), 4A226

Study on shock pressure properties of porous iron (Chinese), J Beijing IT **18**(2) 165-169 (Apr 1998), 5A210

Surface ship shock modeling and simulation: 2D analysis, Shock Vib **5**(2) 129-137 (1998), 5A211

Numerical simulation of a piston in the pipe under the effect of the explosion load (Russian), Prikl Mekh (Appl Mech) **34**(7) 84-89 (1998), 6A238

Prevention of runway collapse following an underground explosion, Eng Failure Anal **5**(4) 279-288 (Dec 1998), 6A239

Seismic signal strength of chemical explosions, Bull Seismol Soc Am **88**(6) 1511-1524 (Dec 1998), 6A240

Proceedings of the International Workshop on Industrial Applications of Explosion, Shock-Wave and High Pressure Phenomena, J Mat Processing Tech **85**(1-3) 4-231 (Jan 1999), 6T284

Mathematical modeling of dynamic behavior of the structure-inhomogeneous cases of the blasting chamber (Russian), Prikl Mekh (Appl Mech) **34**(7) 11-19 (1998), 6A675

Effect of explosives on polymer matrix composite laminates, Composites Part A Appl Sci and Manuf **30A**(3) 181-190 (1999), 8A229

Dynamic response of a stiffened laminated composite plate subjected to blast load, J Sound Vib **221**(3) 371-389 (Apr 1999), 9A315

Structural response of cylindrical shells to internal shock loading, J Pressure Vessel Tech **121**(3) 315-322 (Aug 1999), 11A208

160D. Electromagnetic loading

Investigation of electromagnetic shock-wave structure in anisotropic ferromagnets with easy axis, Wave Motion **29**(1) 23-34 (Jan 1998), 5A212

Theory of the propagation of TEM-pulses in dispersive bi-isotropic slabs, Wave Motion **29**(1) 1-21 (Jan 1998), 5A213

160E. Hypervelocity

Iterative method using consistent mass matrix in axisymmetric FE analysis of hypervelocity impact, Int J Impact Eng **21**(10) 817-825 (Nov 1998), 5A214

Modeling high-velocity impact phenomena using unstructured dynamically-adaptive Eulerian meshes, J Mech Phys Solids **47**(4) 731-762 (Apr 1999), 8A230

Hypervelocity impact into low density material and cometary outburst, Planet Space Sci **47**(3-4) 305-318 (Mar-Apr 1999), 10A274

New approach for improving ballistic performance of composite armor, Exp Mech **39**(2) 103-110 (Jun 1999), 11A253

Onset of petalling in a thin spacecraft wall perforated by an orbital debris particle, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 407-414 (1998), 11A254

160F. Spallation and fracture

Deformation and perforation of cylindrical shells struck normally by blunt projectiles, Int J Pressure Vessels Piping **75**(3) 213-219 (Mar 1998), 1A248

Denting and fracture of sheet steel by blunt and sharp obstacles in glancing collisions, Int J Impact Eng **21**(7) 499-519 (Aug 1998), 1A249

Distributions and moments of asteroid and comet impact speeds upon the Earth and Mars, Planet Space Sci **46**(5) 473-478 (May 1998), 1A250

Dynamic Monte-Carlo simulation for unidirectional composites under tensile impact, Composites Sci Tech **58**(3-4) 487-495 (Mar-Apr 1998), 1A251

Impact behavior of laminated composites: Physical basis for FE analysis, Composites Sci Tech **58**(3-4) 463-478 (Mar-Apr 1998), 1A252

Note on the behind armour effects from perforated alumina-aluminium targets, Int J Impact Eng **21**(7) 589-595 (Aug 1998), 1A253

Rupture of thin ductile tubes by oblique impact of flat-nosed missiles: Analysis, Int J Impact Eng **21**(7) 541-570 (Aug 1998), 1A254

Rupture of thin ductile tubes by oblique impact of blunt missiles: Experiments, Int J Impact Eng **21**(7) 571-587 (Aug 1998), 1A255

Necking and radial cracking around perforations in thin sheets at normal incidence, Int J Impact Eng **21**(7) 521-539 (Aug 1998), 1A577

Mechanical behavior of pultruded sections submitted to low-velocity impact, Composites Sci Tech **58**(6) 839-854 (Jun 1998), 1A640

Study of the impact properties of composites consisting of surface-modified glass fibers in vinyl ester resin, Composites Sci Tech **58**(6) 979-985 (Jun 1998), 1A642

Assessment of the impact response of knit-knit stitch fabric reinforced epoxy composites, Sci Eng Comp Mat **7**(3) 269-277 (1998), 2A302

Response to impacts in composites containing foam, J Reinforced Plastics Composites **17**(14) 1281-1291 (1998), 2A303

Dynamic compressive behavior of thick composite materials, Exp Mech **38**(3) 172-180 (Sep 1998), 2A668

Effect of thickness on the tensile and impact properties of reinforced thermoplastics, J Reinforced Plastics Composites **17**(17) 1580-1586 (1998), 3A562

Comparative evaluation of impact performance of laminate composites containing impact induced-mechanically inserted defects, J Reinforced Plastics Composites **17**(16) 1463-1471 (1998), 3A572

Fracture behavior of plate glasses by projectile impact (Japanese), J Soc Mat Sci Japan **47**(8) 830-835 (Aug 1998), 3A831

Modeling failure waves in glass, Int J Impact Eng **21**(9) 791-799 (Oct 1998), 4A204

Anisotropic damage model for impacted ceramic materials: Application to silicon carbide, Int J Impact Eng **21**(8) 683-693 (Sep 1998), 4A227

Damage threshold of laminated glass structures, Int J Impact Eng **21**(9) 737-746 (Oct 1998), 4A228

Experiment and analysis on the response of curved laminated composite panels subjected to low velocity impact, Int J Impact Eng **21**(9) 711-736 (Oct 1998), 4A229

Partitioning energy during low-velocity impact of RTM fiber-reinforced composites, Int J Impact Eng **21**(9) 773-789 (Oct 1998), 4A230

Revised form for the Johnson-Cook strength model, Int J Impact Eng **21**(8) 609-624 (Sep 1998), 4A568

Effects of braiding parameters on energy absorption capability of triaxially braided composite tubes, Int J Fracture **88**(4) 1964-1982 (1998), 4A610

Correlation between modeling and measurement of material parameters for thermoplastic materials under high-speed impact events, J Reinforced Plastics Composites **17**(18) 1625-1635 (1998), 5A215

Effects of projectile shape on laminated composite perforation, Composites Sci Tech **58**(10) 1629-1639 (Oct 1998), 5A216

Low velocity perforation behavior of polymer composite sandwich panels, Int J Impact Eng **21**(10) 855-879 (Nov 1998), 5A217

Size effects on impact response of composite laminates, Int J Impact Eng **21**(10) 837-854 (Nov 1998), 5A218

Reduction of tensile strength in angle-ply composite laminates due to low-velocity impact, J Reinforced Plastics Composites **18**(1) 63-85 (1999), 6A938

Perforation impact behavior of rubber-interleaved woven GF fabric-reinforced PP composites, Adv Composites Letters **7**(6) 161-166 (1998), 7A532

Deformation and failure of blast-loaded square plates, Int J Impact Eng **22**(4) 449-467 (Apr 1999), 9A242

Impact damage analysis of composite plates, Int J Impact Eng **22**(4) 435-447 (Apr 1999), 9A243

Low-velocity impact response of cross-ply laminated sandwich composites with hollow and foam-filled Z-pin reinforced core, J Composite Tech Res **21**(2) 84-97 (Apr 1999), 9A244

Post-impact crush of hybrid braided composite tubes, Int J Impact Eng **22**(4) 419-433 (Apr 1999), 9A245

Static and low-velocity impact response characteristics of pultruded hybrid glass-graphite-epoxy composite beams, J Thermoplastic Composite Mat **12**(2) 121-132 (Mar 1999), 9A246

Compression after impact testing of carbon fiber reinforced plastic laminates, J Composite Tech Res **21**(2) 51-64 (Apr 1999), 9A631

Compressive strength of hybrid composite tubes after low-energy impact, J Composite Tech Res **21**(2) 65-74 (Apr 1999), 9A632

Study of the impact performance of fiber reinforced composite laminated plates due to various relative fiber contents and densities, J Thermoplastic Composite Mat **12**(3) 227-239 (May 1999), 9A662

Fracture strength of fiber-bonded ceramic composite subjected to static and impact bending, JSME Int J Ser A **41**(4) 495-502 (Oct 1998), 10A275

Impact damage with compressive preload and post-impact compression of carbon composite plates, Int J Impact Eng **22**(5) 485-509 (May 1999), 10A276

Impact loading of plates: validation of numerical simulations by testing, Int J Offshore Polar Eng **9**(1) 10-15 (Mar 1999), 10A277

Determination of the dynamic response of brittle composites by the use of the split Hopkinson pressure bar, Composites Sci Tech **59**(7) 1097-1107 (May-Jun 1999), 11A537

Spall fracture: Mechanical and microstructural aspects, Eng Fracture Mech **63**(3) 273-294 (Jun 1999), 11A815

Aspects of the tensile response of random continuous glass-epoxy composites, J Reinforced Plastics Composites **18**(7) 606-613 (1999), 12A198
Constraint effects on energy absorption in unidirectional PMC tubes, J Composite Mat **33**(9) 774-793 (1999), 12A639

160Y. Computational techniques

Approximate solutions of dynamic problems for rectangular composite plates, Eng Trans **45**(3-4) 463-470 (1997), 1A256
Deconvolution method for force reconstruction in rods under axial impact, J Acoust Soc Am **104**(3-PT1) 1418-1426 (Sep 1998), 2A304
Finite element analysis of 3D contact and impact in large deformation problems, Comput Struct **69**(2) 219-234 (Oct 1998), 2A605
Reduced augmented Lagrangian bi-conjugate gradient method for impact-contact problems, Acta Mech Solida Sinica **11**(3) 241-252 (1998), 3A234
Forward and inverse analysis for impact on sandwich panels, AIAA J **36**(11) 2310-2136 (Nov 1998), 5A219
Frictional impact analysis in open-loop multibody mechanical systems, J Mech Des **121**(1) 119-127 (Mar 1999), 7A92
Interference impact analysis of multibody systems, J Mech Des **121**(1) 128-135 (Mar 1999), 7A93
Adaptive computation of impact force under low velocity impact, Comput Struct **70**(2) 229-241 (Jan 1999), 7A225
Analysis of 3D rigid body collisions with friction by means of a linear integral equation of Volterra, Int J Eng Sci **37**(3) 365-378 (Feb 1999), 7A226
High-velocity projectile penetration into thick armour targets, Int J Impact Eng **22**(1) 45-54 (Jan 1999), 7A227
Material void-opening computation using particle method, Int J Impact Eng **22**(1) 1-22 (Jan 1999), 7A228
Numerical analysis and modeling of jacketed rod penetration, Int J Impact Eng **22**(1) 71-91 (Jan 1999), 7A229
Two-dimensional axisymmetric numerical analysis of a bar-bar tensile impact apparatus by elastoplastic FEM, J Sound Vib **220**(5) 787-806 (Mar 1999), 8A228
Modeling high-velocity impact phenomena using unstructured dynamically-adaptive Eulerian meshes, J Mech Phys Solids **47**(4) 731-762 (Apr 1999), 8A230
Analysis of motion of impact oscillator: Routes to chaos, Machine Dyn Prob **20** 11-22 (1998), 9T247
Estimation of the force and location of an impact exerted on a spacecraft, JSME Int J Ser C **41**(4) 829-835 (Dec 1998), 9A312
Dynamic analysis of instrumented CHARPY impact tests using specimen deflection measurement and mass-spring models, Int J Fracture **91**(4) 299-309 (1998), 9A934
Regularization of numerical inversion of the Laplace transform for the inverse analysis of impact force, JSME Int J Ser A **41**(4) 473-480 (Oct 1998), 10A278
Some ballistic properties of non-homogeneous shields, Composites Part A Appl Sci and Manuf **30A**(6) 733-736 (1999), 10A279
Description and analysis of impacts in dynamic models of wagons, Machine Dyn Prob **23**(1) 65-84 (1999), 12T199
Modeling of bound values of dry friction forces in quasi-static and impact conditions of excitation, Machine Dyn Prob **23**(1) 7-15 (1999), 12T200
Modeling of impacts in physical and technical systems, Machine Dyn Prob **23**(1) 17-24 (1999), 12T201
Modeling, mathematical analysis and simulation of impacts of dynamic systems with elastomer shock absorbers, Machine Dyn Prob **23**(1) 51-64 (1999), 12T202
Numerical modeling of the impact on water of a flexible structure by explicit FEM: Comparisons with Radioss numerical results and experiments, Aerospace Sci Tech **3**(2) 83-91 (Feb 1999), 12A203

160Z. Experimental techniques

New impact specimen for adhesives: Optimization of high-speed-loaded adhesive joints, Int J Adhesion Adhesives **18**(4) 255-260 (Aug 1998), 3A1007
Experimental study on the scaling of plate cutting, Int J Impact Eng **21**(8) 645-662 (Sep 1998), 4A231
Automated compact parametric representation of impact crate, Int J Impact Eng **21**(10) 895-904 (Nov 1998), 5A220
Crushing behavior of aluminium honeycombs under impact loading, Int J Impact Eng **21**(10) 827-836 (Nov 1998), 5A221
High speed photograph test of fractures evolution during blasting (Chinese), J Beijing IT **18**(2) 243-246 (Apr 1998), 5A222
Measurement and analysis of impact-induced strain using extrinsic Fabry-Perot fiber optic sensors, Smart Mat Struct **7**(6) 745-751 (Dec 1998), 6A241
Charpy specimen: A simply supported beam or a constrained free-free beam, Eng Fracture Mech **61**(3-4) 369-386 (Sep-Nov 1998), 6A948
Determination of dynamic stress in fiber reinforced materials under impact load, Shock Vib **5**(4) 267-272 (1998), 9A248
Impact torsional buckling of plastic circular cylindrical shells: Experimental study, Int J Impact Eng **22**(5) 531-542 (May 1999), 10A725
Impact test with flat-ended impactor for mouthguard materials specimen size effect, J Reinforced Plastics Composites **18**(6) 539-548 (1999), 11A255
Split Hopkinson bar technique for low-impedance materials, Exp Mech **39**(2) 81-85 (Jun 1999), 11A833
Simple catapult system for studying the small projectile impact resistance of various glass laminates, J Test Eval **27**(3) 177-182 (May 1999), 12A204

162. WAVES IN INCOMPRESSIBLE FLUIDS

Turbulent mixing by breaking gravity waves, J Fluid Mech **375** 113-141 (Nov 1998), 5A223

162A. General theory

Transformation of discontinuity waves from spatial to pressure coordinates for the primitive system of geophysical fluid dynamics, Physica D **119**(3-4) 398-414 (Aug 1998), 1A257
Effect of lateral waves on broadband interference structure in a shallow sea, Acoust Lett **21**(1) 1-6 (Jul 1997), 2A305
Energy flux for damped inhomogeneous plane waves in viscoelastic fluids, Wave Motion **28**(3) 215-225 (Oct 1998), 2A306
Hamiltonian decomposition of the Boussinesq equations in a pair of coupled Korteweg-de Vries equations, Wave Motion **28**(3) 283-296 (Oct 1998), 2A307
Scattering of water waves by a submerged disc using a hypersingular integral equation, Appl Ocean Res **20**(3) 121-134 (Jun 1998), 2T323
Wave action flux: A physical interpretation, J Fluid Mech **368** 155-164 (Aug 1998), 3A235
Explicit approximation to the wavelength of nonlinear waves, Ocean Eng **26**(2) 147-160 (Feb 1999), 3T237
Eulerian-Lagrangian method for the simulation of wave propagation, Ocean Eng **26**(3) 255-276 (Mar 1999), 3T238
Band structure of surface flexural-gravity waves along periodic interfaces, J Fluid Mech **369** 333-350 (Aug 1998), 3A244
Critical wave number for the Planar Benard Problem is unique, Int J Non-Linear Mech **34**(2) 221-229 (Mar 1999), 4A232
Resonance wave interactions in a weakly viscous liquid, Int J Non-Linear Mech **34**(2) 197-220 (Mar 1999), 4A233
Internal wave generation in an improved 2D Boussinesq model, Ocean Eng **26**(4) 287-324 (Apr 1999), 4T242
New view of nonlinear water waves: The Hilbert spectrum, Annu Rev Fluid Mech **31** 417-457 (1999), 7A231
Linear Rossby waves in zonal transport in rotating platform, Proc Estonian Acad Sci Eng **5**(1) 22-40 (Mar 1999), 8A231
New representation for the free-surface channel Green's function, Appl Ocean Res **21**(1) 17-25 (Feb 1999), 8T241
Dynamic generation of capillary waves, Phys Fluids **11**(5) 1042-1050 (May 1999), 9A262
Generation of waves in Boussinesq models using a source function method, Coastal Eng **36**(4) 271-299 (May 1999), 11T256
Note on finite depth second-order wave-wave interactions, Appl Ocean Res **21**(3) 105-111 (Jun 1999), 11T260
Note on uniqueness in the linearized water-wave problem, J Fluid Mech **386** 5-14 (May 1999), 11A267
Trapped modes around a row of circular cylinders in a channel, J Fluid Mech **386** 259-279 (May 1999), 11A272
Light modulation in elliptical-core liquid crystal fibers, Acta Phys Polonica A **95**(5) 767-775 (May 1999), 12T205
Three-dimensional aspects of air-sea interaction, Eur J Mech B **18**(3) 327-572 (May-Jun 1999), 12A206
Nonlinear capillary wave distortion and disintegration of thin planar liquid sheets, J Fluid Mech **388** 69-113 (Jun 1999), 12A208

162C. Nonlinear, finite amplitude, and solitary waves

Experimental study of interfacial solitary waves, J Fluid Mech **366** 159-177 (Jul 1998), 1A258
Generation and suppression of radiation by solitary pulses, SIAM J Appl Math **58**(4) 1246-1277 (Aug 1998), 1A259
Long wave limit for a Boussinesq equation, SIAM J Appl Math **58**(4) 1237-1245 (Aug 1998), 1A260
Orbital stability of solitary waves of the Long Wave-Short Wave resonance equations, Math Methods Appl Sci **21**(10) 883-894 (Jul 1998), 1A261
Oscillatory tails with arbitrary phase shift for solutions of the perturbed Korteweg-de Vries equation, SIAM J Appl Math **58**(4) 1163-1177 (Aug 1998), 1A262
Radiative effects to the adiabatic dynamics of envelope-wave solitons, Physica D **119**(3-4) 301-313 (Aug 1998), 1A263
Faraday resonance: Asymptotic theory of surface waves, Physica D **119**(3-4) 327-351 (Aug 1998), 1A266
Fractional step method for unsteady free-surface flow with applications to nonlinear wave dynamics, Int J Numer Methods Fluids **28**(2) 293-315 (Aug 1998), 1A270
Exact solutions of various Boussinesq systems, Appl Math Lett **11**(5) 45-49 (Sep 1998), 2T308
Existence of shock fronts for a Burgers equation with a singular source term, Math Methods Appl Sci **21**(12) 1107-1113 (Aug 1998), 2T309
Global well-posedness for the transitional Korteweg-de Vries equation, Appl Math Lett **11**(5) 15-20 (Sep 1998), 2A310
Nonlinear capillary-gravity waves produced by a vertically oscillating plate, China Ocean Eng **12**(2) 147-162 (1998), 2T311
Spectral analysis for nonlinear wave forces, Appl Ocean Res **20**(4) 199-212 (Aug 1998), 2A312
Stability of the shock profiles of the burgers' equation, Appl Math Lett **11**(5) 97-101 (Sep 1998), 2A313
Approximate equivalent vibration system for nonlinear horizontal oscillation of liquid in rectangular TLD (Japanese), Proc JSCE **598**(I-44) 111-123 (Jul 1998), 3A119
Experimental validation of asymptotic theories to study interfacial solitary waves (French), Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **322**(7) 541-544 (Apr 1996), 3A236
Explicit approximation to the wavelength of nonlinear waves, Ocean Eng **26**(2) 147-160 (Feb 1999), 3T237
Note on the horizontal momentum exchange in combined waves and current, Coastal Eng **34**(3-4) 259-275 (Sep 1998), 3A241
Solitary waves in a thick walled elastic tube, Appl Math Model **22**(8) 583-599 (Aug 1998), 3A263
Fully nonlinear solitary waves in continuously stratified incompressible Boussinesq fluids, Phys Fluids **10**(10) 2569-2586 (Oct 1998), 4A234
Changes of the mean velocity profiles in the combined wave-current motion described in a GLM formation, J Fluid Mech **370** 271-296 (Sep 1998), 4A236
Nonlinear critical layer generated by the interaction of fee Rossby waves, J Fluid Mech **371** 319-344 (Sep 1998), 4A241
Coupling of waves and convection, J Fluid Mech **372** 231-271 (Oct 1998), 4A1416
Numerical Methods for Nonlinear Waves in Geophysical Fluid Dynamics (Springer-Verlag, New York, 1998) 5R38
Long wave runup on piecewise linear topographies, J Fluid Mech **374** 1-28 (Nov 1998), 5A224
Nonlinear wave modulation in a prestressed viscoelastic thin tube filled with an inviscid fluid, Int J Non-Linear Mech **34**(3) 571-588 (May 1999), 5A225
Time dependent gravity-capillary flows past an obstacle, Wave Motion **29**(1) 63-79 (Jan 1998), 5A226
Backlund transformation and exact solutions for Whitham-Broer-Kaup equations in shallow water, Appl Math Mech **19**(8) 712-716 (Aug 1998), 6A242
Nonlinear self-interaction of a baroclinic Rossby mode in a channel and a gulf, Dyn Atmos Oceans **28**(3-4) 139-155 (Nov 1998), 6T243
Nonlinear waves and solitons in physical systems: 17th Annual International Conference of the Center for Nonlinear Studies held in Los Alamos, NM, May 12-16, 1997, Physica D **123**(1-4) 1-546 (Nov 1998), 6A244
Spectral problems in the stability of forced solitary waves, Appl Math Lett **12**(2) 19-22 (Mar 1999), 6A245
Transient critical-level effect for internal gravity waves in a stably stratified shear flow with thermal forcing, Phys Fluids **11**(1) 238-240 (Jan 1999), 6A253
Transmission of spatially-compact internal wave packets through a critical level, Dyn Atmos Oceans **28**(3-4) 127-138 (Nov 1998), 6A254
Higher order Boussinesq equations, Ocean Eng **26**(8) 767-792 (Aug 1999), 7A230
New view of nonlinear water waves: The Hilbert spectrum, Annu Rev Fluid Mech **31** 417-457 (1999), 7A231
Nonlinear gravity and capillary-gravity waves, Annu Rev Fluid Mech **31** 301-346 (1999), 7A232
Interaction between a Stokes wave packet and a solitary wave, Eur J Mech B **18**(1) 67-91 (Jan-Feb 1999), 8A232
Internal dynamics of the parametrically excited bound state of double solitary-waves, Physica D **127**(1-2) 13-32 (Mar 1999), 8A233
Mechanics of nonlinear short-wave generation by a moored near-surface buoy, J Fluid Mech **381** 305-335 (Feb 1999), 8A234
Solitary wave decay in nonlinear Faraday resonance, Eur J Mech B **18**(1) 93-102 (Jan-Feb 1999), 8A235
Gentle spilling breakers: Crest profile evolution, J Fluid Mech **379** 191-222 (Jan 1999), 8A239
Laboratory observations of wave group evolution, including breaking effects, J Fluid Mech **378** 197-232 (Jan 1999), 8A240
Properties of large-amplitude internal waves, J Fluid Mech **380** 257-278 (Feb 1999), 8A250
Rates of propagation for Burgers' equation, Rendiconti Lincei Matematica e Appl **IX**(3) 149-156 (1998), 9A249
Unsteady water wave modulations: Fully nonlinear solutions and comparison with the nonlinear Schrodinger equation, Wave Motion **29**(4) 341-361 (May 1999), 9A250
Wave kinematics computed with the nonlinear Schrodinger method for deep water, J Offshore Mech Arctic Eng **121**(2) 126-130 (May 1999), 9A251
Nonlinear radiated and diffracted waves due to the motions of a submerged circular cylinder, J Fluid Mech **382** 263-282 (Mar 1999), 9A264
Weibull-Stokes model for the distribution of maximum wave and crest heights, Int J Offshore Polar Eng **8**(2) 90-101 (Jun 1998), 10A280
Chaotic dynamics of an unstable Bugers equation, Physica D **129**(1-2) 57-67 (May 1999), 11A257
Computational methods for some nonlinear wave equations, J Eng Math **35**(3) 323-338 (Apr 1999), 11A258
Finite-amplitude analysis of some Boussinesq-type equations, Coastal Eng **36**(4) 323-341 (May 1999), 11T259
Note on finite depth second-order wave-wave interactions, Appl Ocean Res **21**(3) 105-111 (Jun 1999), 11T260
Numerical simulation of converging nonlinear wavefronts, J Fluid Mech **385** 1-20 (Apr 1999), 11A261
Numerical study of generalized interfacial solitary waves, Phys Fluids **11**(6) 1502-1511 (Jun 1999), 11T262
Multiple gravity-capillary wave forms near the minimum phase speed, J Fluid Mech **384** 93-106 (Apr 1999), 11A275
Three-dimensional aspects of air-sea interaction, Eur J Mech B **18**(3) 327-572 (May-Jun 1999), 12A206
Computation of solitary waves during propagation and runup on a slope, Ocean Eng **26**(11) 1063-1083 (Nov 1999), 12A207
Nonlinear capillary wave distortion and disintegration of thin planar liquid sheets, J Fluid Mech **388** 69-113 (Jun 1999), 12A208
Nonlinear spectral model for directional random waves at decreasing depths, Int J Offshore Polar Eng **9**(2) 81-89 (Jun 1999), 12A209
Operator splitting methods for generalized Korteweg-De Vries equations, J Comput Phys **153**(1) 203-222 (Jul 1999), 12T210
Frequency modulation of short waves by non-uniform velocity fields, J Hydrodyn **11**(2) 49-55 (1999), 12T212
Wave-induced surface drift of an inextensible thin film, Ocean Eng **26**(11) 1145-1168 (Nov 1999), 12T215

162D. Gravity waves (incl breaking, etc)

Calculation of free-surface wave patterns by steady moving ship (Chinese), J Dalian Univ Tech **38**(4) 463-468 (Jul 1998), 1A264
Effects of surfactants on Faraday-wave dynamics, J Fluid Mech **365** 89-107 (Jun 1998), 1A265
Faraday resonance: Asymptotic theory of surface waves, Physica D **119**(3-4) 327-351 (Aug 1998), 1A266
Uniqueness and trapped modes for surface-piercing cylinders in oblique waves, J Fluid Mech **365** 351-368 (Jun 1998), 1A267
Wave run-up on gentle slopes: A hybrid approach, Arch Hydro-Eng Env Mech **43**(1-4) 79-89 (1996), 1A1450
Nonlinear capillary-gravity waves produced by a vertically oscillating plate, China Ocean Eng **12**(2) 147-162 (1998), 2T311
Determination of the onset of breaking for modulating surface gravity water waves, J Fluid Mech **367** 107-137 (Jul 1998), 2A314
Experimental investigation of the role of atmospheric stability in wind wave growth, Coastal Eng **34**(1-2) 23-33 (Jul 1998), 2T315

Progressive cross waves due to the horizontal oscillations of a vertical cylinder in water: Evolution equations, J Eng Math **34**(1-2) 227-247 (Jul 1998), 2A316
Rotational flow of finite amplitude periodic water waves on shear currents, Appl Ocean Res **20**(3) 163-171 (Jun 1998), 2T317
Solution of an integral equation arising in water waves theory, Appl Math Comput **95**(2-3) 291-295 (Sep 1998), 2A318
Spectral characteristics of wind-waves in laboratory, China Ocean Eng **12**(2) 183-190 (1998), 2T319
Wave groups in uni-directional surface-wave models, J Eng Math **34**(1-2) 215-226 (Jul 1998), 2A320
Vorticity dynamics in a breaking internal gravity wave - Part 1: Initial instability evolution, J Fluid Mech **367** 27-46 (Jul 1998), 2A327
Vorticity dynamics in a breaking internal gravity wave - Part 2: Vortex interactions and transition to turbulence, J Fluid Mech **367** 47-65 (Jul 1998), 2A328
Wave-induced liquefaction and flow of subaqueous mud layers, Coastal Eng **34**(1-2) 109-127 (Jul 1998), 2A1068
Wave action flux: A physical interpretation, J Fluid Mech **368** 155-164 (Aug 1998), 3A235
Eulerian-Lagrangian method for the simulation of wave propagation, Ocean Eng **26**(3) 255-276 (Mar 1999), 3T238
Highly nonlinear standing water waves with small capillary effect, J Fluid Mech **369** 253-272 (Aug 1998), 3A239
Interaction of a plane solitary wave with a rigid vertical cylinder, Z Angew Math Mech **78**(8) 535-543 (1998), 3A240
Note on the horizontal momentum exchange in combined waves and current, Coastal Eng **34**(3-4) 259-275 (Sep 1998), 3A241
Period tripling and energy dissipation of breaking standing waves, J Fluid Mech **369** 273-299 (Aug 1998), 3A242
Pulsating line source in the presence of a nearly circular cylinder submerged in deep water, Mech Res Commun **25**(5) 599-604 (Sep-Oct 1998), 3T243
Oblique wave incidence on a plane beach: The classical problem revisited, J Fluid Mech **368** 291-319 (Aug 1998), 3A246
Cross-shore hydrodynamics within an unsaturated surf zone, Coastal Eng **34**(3-4) 173-196 (Sep 1998), 3A1035
Real time wave forecasting using neural networks, Ocean Eng **26**(3) 191-203 (Mar 1999), 3T1477
Taylor-Galerkin method for simulating nonlinear dispersive water waves, J Comput Phys **146**(2) 546-569 (Nov 1998), 4A63
Approximate for the highest gravity waves on water of finite depth, J Fluid Mech **372** 45-70 (Oct 1998), 4A235
Changes of the mean velocity profiles in the combined wave-current motion described in a GLM formation, J Fluid Mech **370** 271-296 (Sep 1998), 4A236
Faraday resonance in water waves at nearly critical depths, Exp Thermal Fluid Sci **18**(2) 122-133 (Oct 1998), 4T237
Stochastic Doppler shift and encountered wave period distributions in Gaussian waves, Ocean Eng **26**(6) 507-518 (Jun 1999), 4T238
Run-up on a structure due to second-order waves and a current in a numerical wave tank, Appl Ocean Res **20**(5) 297-308 (Oct 1998), 4T247
Gravity Waves in Water of Finite Depth (Comput Mech, Billerica MA, 1997) 5R4
Turbulent mixing by breaking gravity waves, J Fluid Mech **375** 113-141 (Nov 1998), 5A223
Depth inversion in shallow water based on nonlinear properties of shoaling periodic waves, Coastal Eng **35**(3) 185-209 (Nov 1998), 5T227
Hydrodynamic evaluation of multi-layer wave filters and absorbers, J Offshore Mech Arctic Eng **121**(1) 22-31 (Feb 1999), 5A228
Laboratory investigation on wave transmission through two rows of perforated hollow piles, Ocean Eng **26**(7) 675-699 (Jul 1999), 5T229
Shallow water directional wave gages using short baseline pressure arrays, Coastal Eng **35**(1-2) 85-102 (Oct 1998), 5A230
Wave-energy conversion through relative motion between two single-mode oscillating bodies, J Offshore Mech Arctic Eng **121**(1) 32-38 (Feb 1999), 5A231
Wave radiation and diffraction by a submerged sphere in a channel, Quart J Mech Appl Math **51**(4) 647-666 (Nov 1998), 5A232
Transport rate under irregular sheet flow conditions, Coastal Eng **35**(3) 167-183 (Nov 1998), 5A931
Viscous flow about a submerged circular cylinder induced by free-surface traveling waves, J Fluid Mech **374** 173-194 (Nov 1998), 5A957
Added resistance and unsteady bow wave field of a ship in short waves, Acta Polytech Scand Mech Eng **0**(133) 3-96 (1998), 5A1101
Optimum hull spacing of a family of multihulls, Ship Tech Res **45**(4) 180-195 (Oct 1998), 5A1103
Analytic solution to the wave bottom boundary layer governing equation under arbitrary wave forcing, Ocean Eng **26**(7) 595-623 (Jul 1999), 5T1494
Short term forecasting of the sea surface shape, Int Shipbuild Prog **45**(444) 383-400 (Dec 1998), 5A1498
Efficient primary energy conversion in irregular waves, Ocean Eng **26**(7) 625-651 (Jul 1999), 5A1529
Gravity-wave scattering by non-secular changes in depth, J Fluid Mech **376** 53-60 (Dec 1998), 6A246
Laboratory evidence of 3D frequency downshift of waves in a long tank, Phys Fluids **11**(1) 235-237 (Jan 1999), 6T247
Trapping of surface waves by multiple submerged horizontal cylinders, J Eng Math **34**(4) 417-433 (Nov 1998), 6A248
Two-dimensional Navier-Stokes simulation of breaking waves, Phys Fluids **11**(1) 121-133 (Jan 1999), 6T249
Long nonlinear surface and internal gravity waves in a rotating ocean, Surveys Geophys **19**(4) 289-338 (1998), 6A1477
Rainfall on the sea: Surface renewals and wave damping, Boundary-Layer Meteorol **89**(2) 349-355 (Nov 1998), 6T1520
Higher order Boussinesq equations, Ocean Eng **26**(8) 767-792 (Aug 1999), 7A230
Nonlinear gravity and capillary-gravity waves, Annu Rev Fluid Mech **31** 301-346 (1999), 7A232
Effect of randomness on the stability of deep water surface gravity waves in the presence of a thin thermocline, J Austral Math Soc B **40**(2) 190-206 (Oct 1998), 7A233
Estimating directional distribution for co-existent field of incident and reflected waves, China Ocean Eng **12**(3) 353-358 (1998), 7T234
Numerical simulation on water waves by NS equations (Chinese), J Shanghai Jiaotong Univ **32**(11) 1-7 (Nov 1998), 7A235
Wave sloshing in corrugated bottom tanks with 2D flow, Ocean Eng **26**(8) 703-712 (Aug 1999), 7A236
Application of a Boussinesq model for the computation of breaking waves - Part 1: Development and verification, Ocean Eng **26**(10) 905-925 (Oct 1999), 8T236
Experimental study of sand bed configurations in front of a vertical wall under wave action, China Ocean Eng **12**(4) 405-416 (1998), 8T237
Experiments on nonlinear gravity-capillary waves, J Fluid Mech **380** 205-232 (Feb 1999), 8A238
Gentle spilling breakers: Crest profile evolution, J Fluid Mech **379** 191-222 (Jan 1999), 8A239
Laboratory observations of wave group evolution, including breaking effects, J Fluid Mech **378** 197-232 (Jan 1999), 8A240
New representation for the free-surface channel Green's function, Appl Ocean Res **21**(1) 17-25 (Feb 1999), 8T241
Numerical simulation of nonlinear 3D waves in water of arbitrary varying topography, China Ocean Eng **12**(4) 383-404 (1998), 8T242
Surface wave propagation in mangrove forests, Fluid Dyn Res **24**(4) 219-249 (Apr 1999), 8A243
Transient motion of a viscous liquid with free surface in a cylindrical container, Z Angew Math Mech **79**(2) 97-106 (1999), 8A244
Application of a Boussinesq model for the computation of breaking waves - Part 2: Wave-induced set-down and setup on a submerged coral reef, Ocean Eng **26**(10) 927-947 (Oct 1999), 8T1521
Free Surface Flows with Viscosity (Comput Mech, Billerica MA, 1998) 9N12
Branching behavior of standing waves: The signatures of resonance, Phys Fluids **11**(5) 1051-1064 (May 1999), 9A252
Estimating extremes in an evolving wave field, Coastal Eng **36**(2) 147-163 (Mar 1999), 9T253
High-frequency asymptotics of edge waves on a beach of nonconstant slope, SIAM J Appl Math **59**(2) 529-546 (Nov 1998), 9A254
Mild-slope approximation for long waves generated by short waves, J Eng Math **35**(1-2) 43-57 (Feb 1999), 9A255
Non-local absorbing discrete boundary condition in FEs for water waves elliptic models (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 481-500 (1998), 9A256
Note on tuning in Roseau's alternative edge waves, J Fluid Mech **382** 245-262 (Mar 1999), 9A257
Numerical study of an ill-posed Boussinesq equation arising in water waves and nonlinear lattices: Filtering and regularization techniques, Appl Math Comput **101**(2-3) 159-207 (Jun 1999), 9T258
Radiation and diffraction analysis of the McIver toroid, J Eng Math **35**(1-2) 135-147 (Feb 1999), 9A259
Trapping and near-trapping by arrays of cylinders in waves, J Eng Math **35**(1-2) 149-179 (Feb 1999), 9A260
Wave field due to a moving body performing oscillations in the vicinity of the critical frequency, J Eng Math **35**(1-2) 219-232 (Feb 1999), 9A261
Equilibrium beach profiles under breaking and non-breaking waves, Coastal Eng **36**(1) 59-85 (Feb 1999), 9A1107
Two-phase flow modeling of sediment motions in oscillatory sheet flow, Coastal Eng **36**(2) 87-109 (Mar 1999), 9A1109
Reynolds number variation in oscillatory boundary layers - Part I: Purely oscillatory motion, Coastal Eng **36**(2) 111-146 (Mar 1999), 9T1124
Bivariate distribution of wave heights and periods in mixed sea states, J Offshore Mech Arctic Eng **121**(2) 102-108 (May 1999), 9A1502
Spectral model for unidirectional nonlinear wave propagation over arbitrary depths, Coastal Eng **36**(1) 1-16 (Feb 1999), 9T1505
Biologically-inspired bodies under surface waves - Part 1: Load measurements, J Fluids Eng **121**(2) 469-478 (Jun 1999), 9A1585
Breaking criteria of regular waves on gentle slope (Chinese), J Dalian Univ Tech **39**(2) 302-308 (Mar 1999), 10A281
Breaking wave loads on breakwater (Chinese), J Dalian Univ Tech **39**(2) 326-330 (Mar 1999), 10A282
Comparison between the kinematic wave model and the storage function runoff model: Frequency characteristic and stochastic characteristic (Japanese), Proc JSCE **614**(II-46) 21-36 (Feb 1999), 10A283
Flux parameterization including the effects of capillary waves and sea state, J Atmos Sci **56**(9) 1123-1139 (May 1999), 10T284
Incipient breaking of steady waves in the presence of surface wakes, J Fluid Mech **383** 285-305 (Mar 1999), 10A285
Numerical modeling of nonlinear interaction between wave and composite breakwater over sand seabed, Proc JSCE **614**(II-46) 121-133 (Feb 1999), 10A286
Relation between wave length and wave period distributions in random Gaussian waves, Int J Offshore Polar Eng **8**(4) 258-264 (Dec 1998), 10A287
Simulation and prediction of swash oscillations on a steep beach, Coastal Eng **36**(3) 219-242 (Apr 1999), 10A288
Study on the short term behaviors of the density interface and the formation of wind-driven current in a brackish lake (Japanese), Proc JSCE **614**(II-46) 77-96 (Feb 1999), 10T289
Modeling shallow water wave generation and transformation in an intertidal estuary, Coastal Eng **36**(3) 197-217 (Apr 1999), 10T1117
Focusing of surface waves by internal waves, J Fluid Mech **384** 27-58 (Apr 1999), 11A263
Fourth order evolution equation for capillary-gravity waves including the effects of wind input and shear in the water current, Appl Mech Eng **4**(1) 5-24 (1999), 11T264
Instabilities of steep short-crested surface waves in deep water, Phys Fluids **11**(6) 1679-1681 (Jun 1999), 11T265
Non-local absorbent boundary condition in the discrete medium, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 5-20 (1999), 11A266
Note on uniqueness in the linearized water-wave problem, J Fluid Mech **386** 5-14 (May 1999), 11A267
Propagation of water waves along a channel of variable width, Appl Ocean Res **21**(3) 145-156 (Jun 1999), 11T268
Rayleigh-Bloch surface waves along periodic gratings and their connection with trapped modes in waveguides, J Fluid Mech **386** 233-258 (May 1999), 11A269
Relationships between the mean wavelength and wave-period of wind waves in deep water, Appl Ocean Res **21**(3) 127-131 (Jun 1999), 11T270
Statistical properties of successive wave periods, J Offshore Mech Arctic Eng **121**(3) 166-171 (Aug 1999), 11A271
Trapped modes around a row of circular cylinders in a channel, J Fluid Mech **386** 259-279 (May 1999), 11A272
Wave action on currents with vorticity, J Fluid Mech **386** 329-344 (May 1999), 11A273
Wave evolution over submerged sills: Tests of a higher-order Boussinesq model, Coastal Eng **37**(1) 57-96 (Jun 1999), 11T274
Unsteady ripple generation on steep gravity-capillary waves, J Fluid Mech **386** 281-304 (May 1999), 11A276
Resonant scattering of edge waves by longshore periodic tomography: Finite beach slope, J Fluid Mech **387** 255-269 (May 1999), 11A277
Field measurements of longshore sediment transport during storms, Coastal Eng **36**(4) 301-321 (May 1999), 11T1079
Shear instability in shallow water, J Fluid Mech **387** 97-127 (May 1999), 11A1239
Joint distribution of wave heights and periods: The role of the spectral bandwidth, J Offshore Mech Arctic Eng **121**(3) 187-193 (Aug 1999), 11A1583
Three-dimensional aspects of air-sea interaction, Eur J Mech B **18**(3) 327-572 (May-Jun 1999), 12A206
Air flow separation over unsteady breaking waves, Phys Fluids **11**(7) 1959-1961 (Jul 1999), 12A211
Frequency modulation of short waves by non-uniform velocity fields, J Hydrodyn **11**(2) 49-55 (1999), 12T212
Further discussion related to "A formal derivation and numerical modeling of the improved Boussinesq equations for varying depth" by Beji and Nadaoka, Ocean Eng **26**(11) 1057-1062 (Nov 1999), 12T213
Numerical study of interactions between regular water waves and a submerged obstacle (Chinese), J Shanghai Univ **3**(1) 30-35 (Mar 1999), 12A214
Wave-induced surface drift of an inextensible thin film, Ocean Eng **26**(11) 1145-1168 (Nov 1999), 12T215
Reflection of short waves, China Ocean Eng **13**(1) 31-46 (1999), 12T221
Scattering and near-trapping of water waves by axisymmetric topography, J Fluid Mech **388** 335-354 (Jun 1999), 12A222
Water-wave scattering by thick vertical barriers, J Eng Math **35**(4) 361-384 (May 1999), 12A223
Numerical study of gravity wave breaking and impacts on turbulence and mean state, J Atmos Sci **56**(13) 2152-2177 (Jul 1999), 12A224
Adaptive grid technique for the vertical structure of shallow water models, Appl Math Model **23**(8) 639-650 (Aug 1999), 12A226
Parametrically driven surface waves in viscoelastic liquids, Phys Fluids **11**(8) 1970-1981 (Aug 1999), 12T588

162F. Capillary waves and waves in thin films

Cauchy problem for a capillary drop - Part I: Irrotational motion, Math Methods Appl Sci **21**(12) 1149-1183 (Aug 1998), 2A1186
Highly nonlinear standing water waves with small capillary effect, J Fluid Mech **369** 253-272 (Aug 1998), 3A239
Nonlinear gravity and capillary-gravity waves, Annu Rev Fluid Mech **31** 301-346 (1999), 7A232
Dynamic generation of capillary waves, Phys Fluids **11**(5) 1042-1050 (May 1999), 9A262
Free Surface Flows (Springer-Verlag, Vienna, 1998) 10R24
Nonlinear nearly Wilton ripples between two uniform stream flows, Quart J Mech Appl Math **52**(2) 237-252 (May 1999), 10A290
Special case of forced capillary-gravity waves in a circular basin under Hocking's edge condition, Wave Motion **30**(1) 91-96 (Jul 1999), 10A291
Fourth order evolution equation for capillary-gravity waves including the effects of wind input and shear in the water current, Appl Mech Eng **4**(1) 5-24 (1999), 11T264
Multiple gravity-capillary wave forms near the minimum phase speed, J Fluid Mech **384** 93-106 (Apr 1999), 11A275
Unsteady ripple generation on steep gravity-capillary waves, J Fluid Mech **386** 281-304 (May 1999), 11A276
Multiplicity result for solitary gravity-capillary waves in deep water via critical-point theory, Arch Rational Mech Anal **146**(3) 183-220 (1999), 12A216

162H. Reflection, refraction, diffraction, and scattering

Effects of surfactants on Faraday-wave dynamics, J Fluid Mech **365** 89-107 (Jun 1998), 1A265
Uniqueness and trapped modes for surface-piercing cylinders in oblique waves, J Fluid Mech **365** 351-368 (Jun 1998), 1A267
Interactions of a horizontal flexible membrane with oblique incident waves, J Fluid Mech **367** 139-161 (Jul 1998), 2A321
Nonlinear diffraction of waves by a submerged shelf in shallow water, J Offshore Mech Arctic Eng **120**(4) 212-220 (Nov 1998), 2A322
Scattering of water waves by a submerged disc using a hypersingular integral equation, Appl Ocean Res **20**(3) 121-134 (Jun 1998), 2T323
Scattering of water waves by rows of cylinders with-without a backwall, Appl Ocean Res **20**(4) 191-198 (Aug 1998), 2T324
Internal generation of waves for time-dependent mild-slope equations, Coastal Eng **34**(1-2) 35-57 (Jul 1998), 2T326
Interaction of a plane solitary wave with a rigid vertical cylinder, Z Angew Math Mech **78**(8) 535-543 (1998), 3A240
Band structure of surface flexural-gravity waves along periodic interfaces, J Fluid Mech **369** 333-350 (Aug 1998), 3A244
Instabilities of the undertow, J Fluid Mech **369** 175-190 (Aug 1998), 3A245
Oblique wave incidence on a plane beach: The classical problem revisited, J Fluid Mech **368** 291-319 (Aug 1998), 3A246
Phase kinks, negative frequencies, and other third-order peculiarities of modulated surface waves, J Fluid Mech **368** 321-338 (Aug 1998), 3A247
Resonant scattering of edge waves by longshore periodic topography, J Fluid Mech **369** 91-123 (Aug 1998), 3A248
Diffraction of internal waves by a submerged circular cylinder at forward speed in a two-layer fluid, J Eng Math **34**(3) 249-275 (Oct 1998), 4A239
Scattering of water wave by a submerged horizontal plane and a submerged permeable breakwater, Ocean Eng **26**(4) 325-341 (Apr 1999), 4T240
Long wave runup on piecewise linear topographies, J Fluid Mech **374** 1-28 (Nov 1998), 5A224
Wave radiation and diffraction by a submerged sphere in a channel, Quart J Mech Appl Math **51**(4) 647-666 (Nov 1998), 5A232

Longitudinal current induced by oblique waves along coastal structures, Coastal Eng **35**(3) 211-230 (Nov 1998), 5A927
Gravity-wave scattering by non-secular changes in depth, J Fluid Mech **376** 53-60 (Dec 1998), 6A246
Trapping of surface waves by multiple submerged horizontal cylinders, J Eng Math **34**(4) 417-433 (Nov 1998), 6A248
Scattering of water waves by a submerged slender barrier, J Austral Math Soc B **40**(2) 171-189 (Oct 1998), 7A237
Three dimensional analysis of wave attenuation by a submerged, horizontal, bottom-mounted, flexible shell, Ocean Eng **26**(9) 813-839 (Oct 1999), 7T238
Solitary wave decay in nonlinear Faraday resonance, Eur J Mech B **18**(1) 93-102 (Jan-Feb 1999), 8A235
Experimental study of sand bed configurations in front of a vertical wall under wave action, China Ocean Eng **12**(4) 405-416 (1998), 8T237
Surface wave propagation in mangrove forests, Fluid Dyn Res **24**(4) 219-249 (Apr 1999), 8A243
Reflection of planetary waves in 3D tropospheric flows, J Atmos Sci **56**(4) 652-670 (Feb 1999), 8A245
Water wave scattering by a submerged thick wall with a gap, Appl Ocean Res **21**(2) 69-80 (Apr 1999), 8T246
Wave interactions with double slotted barriers, Appl Ocean Res **21**(2) 81-91 (Apr 1999), 8T247
Branching behavior of standing waves: The signatures of resonance, Phys Fluids **11**(5) 1051-1064 (May 1999), 9A252
Note on tuning in Roseau's alternative edge waves, J Fluid Mech **382** 245-262 (Mar 1999), 9A257
Trapping and near-trapping by arrays of cylinders in waves, J Eng Math **35**(1-2) 149-179 (Feb 1999), 9A260
Diffraction of water waves due to a presence of two headlands, J Comput Appl Math **104**(1) 27-39 (Apr 1999), 9A263
Nonlinear radiated and diffracted waves due to the motions of a submerged circular cylinder, J Fluid Mech **382** 263-282 (Mar 1999), 9A264
Splitting of solitary waves running over a shallower water, Wave Motion **29**(4) 375-389 (May 1999), 9A265
Wave motion over a group of submerged horizontal plates, Int J Eng Sci **37**(6) 703-715 (May 1999), 9A266
Dynamics of Thin Walled Elastic Bodies (Academic, San Diego, CA, 1998) 10R5
Interaction effects of local steady flow on wave diffraction-radiation at low forward speed, Int J Offshore Polar Eng **8**(2) 102-109 (Jun 1998), 10A292
Irregular frequencies appearing in wave diffraction-radiation solutions, Int J Offshore Polar Eng **8**(2) 110-114 (Jun 1998), 10A293
Splash formation at the nose of a smoothly curved body in a stream, J Austral Math Soc B **40**(4) 421-436 (Apr 1999), 10A294
Wave propagation past a pile-restrained floating breakwater, Int J Offshore Polar Eng **8**(4) 265-269 (Dec 1998), 10A295
Rayleigh-Bloch surface waves along periodic gratings and their connection with trapped modes in waveguides, J Fluid Mech **386** 233-258 (May 1999), 11A269
Wave evolution over submerged sills: Tests of a higher-order Boussinesq model, Coastal Eng **37**(1) 57-96 (Jun 1999), 11T274
Resonant scattering of edge waves by longshore periodic tomography: Finite beach slope, J Fluid Mech **387** 255-269 (May 1999), 11A277
Non reflecting boundary conditions and their use in estimating the effects of coolant channel failure in a PHWR, Nucl Eng Des **188**(3) 345-360 (May 1999), 11A1616
Numerical study of interactions between regular water waves and a submerged obstacle (Chinese), J Shanghai Univ **3**(1) 30-35 (Mar 1999), 12A214
Beam propagation method for liquid crystal-core optical fiber waveguides, Acta Phys Polonica A **95**(5) 761-766 (May 1999), 12T217
Diffraction of second-order bichromatic waves by a semi-immersed horizontal rectangular cylinder, J Fluids Struct **13**(3) 381-397 (Apr 1999), 12A218
Linear and nonlinear wave diffraction using the nonlinear time dependent mild slope equations, Coastal Eng **37**(2) 175-192 (Jul 1999), 12T219
Reflection coefficient of sloping walls, Ocean Eng **26**(11) 1085-1094 (Nov 1999), 12T220
Reflection of short waves, China Ocean Eng **13**(1) 31-46 (1999), 12T221
Scattering and near-trapping of water waves by axisymmetric topography, J Fluid Mech **388** 335-354 (Jun 1999), 12A222
Water-wave scattering by thick vertical barriers, J Eng Math **35**(4) 361-384 (May 1999), 12A223
Study on the interaction of water waves with semicircular breakwater, China Ocean Eng **13**(1) 73-80 (1999), 12T1060

162J. Pipes, ducts, channels (incl water hammer and surging, etc)

Influence of cardiovascular dynamic coupling on the blood pulse wave propagation in human body, Appl Math Mech **19**(7) 601-614 (Jul 1998), 5A1563
Oscillations of liquids in single-outlet vessels, Proc Inst Mech Eng C **212**(C8) 759-764 (1998), 6A250
Propagation of finite amplitude acoustic waves in a 2D rectangular duct, J Sound Vib **218**(5) 791-798 (Dec 1998), 6A251
Modeling the influence of acoustic linear non-uniformities on duct modes, J Sound Vib **219**(5) 859-879 (Feb 1999), 7A318
Deformation of metal pipe due to underwater shock wave, J Pressure Vessel Tech **121**(2) 176-180 (May 1999), 9A608

162K. Rotating flows

Variational principle for nonlinear Rossby waves and conservation laws, Appl Math Lett **11**(5) 103-108 (Sep 1998), 2A325
Nonlinear critical layer generated by the interaction of fee Rossby waves, J Fluid Mech **371** 319-344 (Sep 1998), 4A241
Short-wavelength instabilities of waves in rotating stratified fluids, Phys Fluids **10**(12) 3168-3177 (Dec 1998), 5A234
Possible mechanism of anomalous diffusion by Rossby waves, Phys Fluids **10**(12) 3185-3193 (Dec 1998), 5A1496
Propagation of Kelvin waves along irregular coastlines in finite-difference models, Adv Water Resources **22**(3) 239-245 (Nov 1998), 5T1497
Finite-amplitude topographic Rossby waves in a channel, Phys Fluids **11**(1) 107-120 (Jan 1999), 6A252
Reflection of planetary waves in 3D tropospheric flows, J Atmos Sci **56**(4) 652-670 (Feb 1999), 8A245
Variational methods and nonlinear quasigeostrophic waves, Phys Fluids **11**(4) 875-879 (Apr 1999), 8A248
Climatology of Rossby wave breaking along the subtropical tropopause, J Atmos Sci **56**(3) 359-373 (Feb 1999), 8T1528
Potential vorticity thickness fluxes and wave-mean flow interaction, J Atmos Sci **56**(7) 948-958 (Apr 1999), 9T267
Secondary instabilities in rapidly rotating fluids: Inertial wave breakdown, J Fluid Mech **382** 283-306 (Mar 1999), 9A1216
Planetary waves in a stratified ocean of variable depth - Part 2: Continuously stratified ocean, J Fluid Mech **388** 147-169 (Jun 1999), 12A225
Planetary waves in a stratified ocean at variable depth - Part 1: Two-layer model, J Fluid Mech **388** 115-145 (Jun 1999), 12A1543

162L. Stratified flows and internal waves

Analytical and numerical results for flow and shock formation in two-layer gravity currents, J Austral Math Soc B **40**(1) 35-58 (Jul 1998), 1A268
Internal generation of waves for time-dependent mild-slope equations, Coastal Eng **34**(1-2) 35-57 (Jul 1998), 2T326
Vorticity dynamics in a breaking internal gravity wave - Part 1: Initial instability evolution, J Fluid Mech **367** 27-46 (Jul 1998), 2A327
Vorticity dynamics in a breaking internal gravity wave - Part 2: Vortex interactions and transition to turbulence, J Fluid Mech **367** 47-65 (Jul 1998), 2A328
Generation of internal waves over a shelf, Dyn Atmos Oceans **28**(2) 107-125 (Aug 1998), 2A1482
Class of low-frequency modes in laterally homogeneous fluid-solid media, SIAM J Appl Math **58**(5) 1462-1508 (Oct 1998), 3A249
Inverse problem of ship-induced internal waves, Ocean Eng **26**(2) 99-110 (Feb 1999), 3A250
Localized and volume internal waves in a stratified fluid contiguous to a mixed layer, J Appl Math Mech **62**(2) 237-241 (1998), 3A251
Fully nonlinear solitary waves in continuously stratified incompressible Boussinesq fluids, Phys Fluids **10**(10) 2569-2586 (Oct 1998), 4A234
Diffraction of internal waves by a submerged circular cylinder at forward speed in a two-layer fluid, J Eng Math **34**(3) 249-275 (Oct 1998), 4A239
Internal wave generation in an improved 2D Boussinesq model, Ocean Eng **26**(4) 287-324 (Apr 1999), 4T242
Excitation and breaking of internal gravity waves by parametric instability, J Fluid Mech **374** 117-144 (Nov 1998), 5A233
Short-wavelength instabilities of waves in rotating stratified fluids, Phys Fluids **10**(12) 3168-3177 (Dec 1998), 5A234
Transient critical-level effect for internal gravity waves in a stably stratified shear flow with thermal forcing, Phys Fluids **11**(1) 238-240 (Jan 1999), 6A253
Transmission of spatially-compact internal wave packets through a critical level, Dyn Atmos Oceans **28**(3-4) 127-138 (Nov 1998), 6A254
Internal wave excitation from stratified flow over a thin barrier, J Fluid Mech **377** 223-252 (Dec 1998), 7A969
Reflection of planetary waves in 3D tropospheric flows, J Atmos Sci **56**(4) 652-670 (Feb 1999), 8A245
Variational methods and nonlinear quasigeostrophic waves, Phys Fluids **11**(4) 875-879 (Apr 1999), 8A248
Improving the convergence of the modal decomposition of internal waves generated by a moving dipole, J Appl Math Mech **62**(5) 737-742 (1998), 8A249
Properties of large-amplitude internal waves, J Fluid Mech **380** 257-278 (Feb 1999), 8A250
Wave ducting in a stratified shear flow over a 2D mountain - Part I: General linear criteria, J Atmos Sci **56**(3) 412-436 (Feb 1999), 8T251
Wave ducting in a stratified shear flow over a 2D mountain - Part II: Implications for the development of high-drag states for severe downslope windstorms, J Atmos Sci **56**(3) 437-452 (Feb 1999), 8T252
Potential vorticity thickness fluxes and wave-mean flow interaction, J Atmos Sci **56**(7) 948-958 (Apr 1999), 9T267
Generation of ripple-size internal waves on a fluidized seafloor: The Ephemeral Ripples, J Eng Math **35**(1-2) 109-117 (Feb 1999), 9A268
Internal waves and rectification in a linearly stratified fluid, Dyn Atmos Oceans **29**(1) 65-84 (Mar 1999), 9A269
Numerical experiments on internal gravity waves in an accelerating shear flow, Dyn Atmos Oceans **29**(1) 41-63 (Mar 1999), 9T270
Propagation and reflection of internal waves, Phys Fluids **11**(5) 1081-1090 (May 1999), 9A271
Steady periodic interfacial waves, J Eng Math **35**(1-2) 71-84 (Feb 1999), 9A272
Waves generated by a moving source in a two-layer ocean of finite depth, J Eng Math **35**(1-2) 85-107 (Feb 1999), 9A273
Focusing of surface waves by internal waves, J Fluid Mech **384** 27-58 (Apr 1999), 11A263
Generation of waves at an inertial interface, Appl Mech Eng **4**(1) 73-96 (1999), 11A278
Numerical study of gravity wave breaking and impacts on turbulence and mean state, J Atmos Sci **56**(13) 2152-2177 (Jul 1999), 12A224
Planetary waves in a stratified ocean of variable depth - Part 2: Continuously stratified ocean, J Fluid Mech **388** 147-169 (Jun 1999), 12A225
Planetary waves in a stratified ocean at variable depth - Part 1: Two-layer model, J Fluid Mech **388** 115-145 (Jun 1999), 12A1543

162Y. Computational techniques

Computational models for weakly dispersive nonlinear water waves, Comput Methods Appl Mech Eng **160**(3-4) 337-358 (Jul 1998), 1A269
Fractional step method for unsteady free-surface flow with applications to nonlinear wave dynamics, Int J Numer Methods Fluids **28**(2) 293-315 (Aug 1998), 1A270
Waves due to initial disturbances at the inerface between two superposed fluids, Appl Mech Eng **3**(2) 233-247 (1998), 1T271
Three-dimensional shallow water flow computation by a semi-implicit FEM, J Hydrodyn **10**(2) 21-28 (1998), 2T47
Determination of the onset of breaking for modulating surface gravity water waves, J Fluid Mech **367** 107-137 (Jul 1998), 2A314
Reduction for the nonlinear problem of fluid waves to a system of intergrodifferential equations with an oceanographical application, J Comput Appl Math **95**(1-2) 65-81 (Aug 1998), 2A329
Arbitrary Lagrangian-Eulerian FEM for solving 3D free surface flows, Comput Methods Appl Mech Eng **162**(1-4) 79-106 (Aug 1998), 3A252
Discrete non-local outgoing boundary condition for diffraction of surface waves, Commun Numer Methods Eng **14**(9) 849-861 (Sep 1998), 3A253
Taylor-Galerkin method for simulating nonlinear dispersive water waves, J Comput Phys **146**(2) 546-569 (Nov 1998), 4A63
Resonance wave interactions in a weakly viscous liquid, Int J Non-Linear Mech **34**(2) 197-220 (Mar 1999), 4A233
Algebraic method for solving the KdV equation - I: Two-parameter solution family, Chaos Solitons Fractals **9**(10) 1733-1737 (Oct 1998), 4A243
Algebraic method for solving the KdV equation - II: Three-parameter and four-parameter solution family, Chaos Solitons Fractals **9**(10) 1739-7145 (Oct 1998), 4A244
Linearized implicit pseudo-spectral method for certain nonlinear water wave equations, Commun Numer Methods Eng **14**(10) 977-993 (Oct 1998), 4A245
A robust, FE model for hydrostatic surface water flows, Commun Numer Methods Eng **14**(10) 931-940 (Oct 1998), 4A246
Run-up on a structure due to second-order waves and a current in a numerical wave tank, Appl Ocean Res **20**(5) 297-308 (Oct 1998), 4T247
Symmetric formulation for computing transient shallow water flows, Comput Methods Appl Mech Eng **163**(1-4) 111-122 (Sep 1998), 4A248
Improved method for the theoretical prediction of the wave resistance of transom-stern hulls using a slender body approach, Int Shipbuild Prog **45**(444) 331-349 (Dec 1998), 5A1102
Two-dimensional Navier-Stokes simulation of breaking waves, Phys Fluids **11**(1) 121-133 (Jan 1999), 6T249
Adaptive FE simulations of the surface currents in the North sea, Comput Methods Appl Mech Eng **166**(3-4) 379-390 (Nov 1998), 6A255
Finite difference method for dispersive linear waves with applications to simulating microwave pulses in water, J Comput Phys **148**(1) 199-226 (Jan 1999), 6A256
Wave sloshing in corrugated bottom tanks with 2D flow, Ocean Eng **26**(8) 703-712 (Aug 1999), 7A236
Adaptive BE approach to 3D transient free-surface flow of viscous fluids, Eng Anal Boundary Elements **23**(2) 111-122 (Feb 1999), 7A239
Hr-adaptive BE for water free-surface problems, Eng Anal Boundary Elements **23**(3) 223-232 (Mar 1999), 7A240
Numerical simulation of nonlinear 3D waves in water of arbitrary varying topography, China Ocean Eng **12**(4) 383-404 (1998), 8T242
Wave interactions with double slotted barriers, Appl Ocean Res **21**(2) 81-91 (Apr 1999), 8T247
Finite element approximations to the system of shallow water equations - Part II: Discrete-time a priori error estimates, SIAM J Numer Anal **36**(1) 226-250 (Jan 1999), 8A253
Fully nonlinear free-surface simulations by a 3D viscous numerical wave tank, Int J Numer Methods Fluids **29**(6) 685-703 (Mar 1999), 8A254
Mixed FE analysis and numerical solitary solution for the RLW equation, SIAM J Numer Anal **36**(1) 89-104 (Jan 1999), 8A255
Non-local absorbing discrete boundary condition in FEs for water waves elliptic models (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 481-500 (1998), 9A256
Numerical experiments on internal gravity waves in an accelerating shear flow, Dyn Atmos Oceans **29**(1) 41-63 (Mar 1999), 9T270
Modeling mitigation effects of watershield on shock waves, Shock Vib **5**(4) 225-234 (1998), 9A274
Incipient breaking of steady waves in the presence of surface wakes, J Fluid Mech **383** 285-305 (Mar 1999), 10A285
Acoustic Bessel Bullets, J Sound Vib **222**(1) 115-143 (Apr 1999), 10A359
Numerical simulation of converging nonlinear wavefronts, J Fluid Mech **385** 1-20 (Apr 1999), 11A261
Numerical study of generalized interfacial solitary waves, Phys Fluids **11**(6) 1502-1511 (Jun 1999), 11T262
Analysis of the discontinuous Galerkin method for wave propagation problems, J Comput Phys **151**(2) 921-946 (May 1999), 11T279
Second-order Godunov method for wave problems in coupled solid-water-gas systems, J Comput Phys **151**(2) 790-815 (May 1999), 11A280
Stability of algorithms for waves with large flows, J Comput Phys **152**(1) 346-358 (Jun 1999), 11A281
Generic super Green functions, Ship Tech Res **46**(2) 81-92 (May 1999), 11A1292
Role of applied mathematics in hydrodynamics for ships and floating offshore structures, Ship Tech Res **46**(2) 59-80 (May 1999), 11A1293
Computation of solitary waves during propagation and runup on a slope, Ocean Eng **26**(11) 1063-1083 (Nov 1999), 12A207
Operator splitting methods for generalized Korteweg-De Vries equations, J Comput Phys **153**(1) 203-222 (Jul 1999), 12T210
Adaptive grid technique for the vertical structure of shallow water models, Appl Math Model **23**(8) 639-650 (Aug 1999), 12A226
Numerical modeling of Boussinesq equations by FEM, Coastal Eng **37**(2) 97-122 (Jul 1999), 12T227

162Z. Experimental techniques

Experimental study of interfacial solitary waves, J Fluid Mech **366** 159-177 (Jul 1998), 1A258
Laboratory evidence of 3D frequency downshift of waves in a long tank, Phys Fluids **11**(1) 235-237 (Jan 1999), 6T247
Experiments on nonlinear gravity-capillary waves, J Fluid Mech **380** 205-232 (Feb 1999), 8A238
Locally nonlinear interpretation of PUV measurements, Coastal Eng **36**(1) 17-36 (Feb 1999), 9A275

Controlling light by light: Optical modulation in chiral neumatics, Acta Phys Polonica A **95**(5) 777-782 (May 1999), 12T228

Optical nonlinearity in liquid crystalline optical waveguides, Acta Phys Polonica A **95**(5) 783-792 (May 1999), 12T229

164. WAVES IN COMPRESSIBLE FLUIDS

164A. General theory

Triple-shock entropy theorem and its consequences, J Fluid Mech **366** 179-210 (Jul 1998), 1A273

Numerical Methods for Wave Propagation (Kluwer, Netherlands, 1998) 2N7

Self-similar shocks in a dusty gas, Int J Non-Linear Mech **34**(2) 313-327 (Mar 1999), 4A249

Zero-dissipation limit of solutions with shocks for systems of hyperbolic conservation laws, Arch Rational Mech Anal **146**(4) 275-370 (1999), 12A230

164B. Expansion and compression

Nonclassical dense gas flows for simple geometries, AIAA J **36**(10) 1842-1847 (Oct 1998), 3A254

Numerical and experimental study of a micro-blast wave generated by pulsed-laser beam focusing, Shock Waves **8**(6) 337-349 (Dec 1998), 5A235

Mechanistic model for shock initiation of solid explosives, Phys Fluids **11**(3) 710-736 (Mar 1999), 8A257

Time-dependent simulations of point explosions with heat conduction, Phys Fluids **11**(5) 1091-1095 (May 1999), 9A278

Formation of blast waves as a result of a low pressure domain decomposition, Shock Waves **9**(3) 159-164 (Jun 1999), 12T231

Investigation of the detonation regimes in gaseous mixtures with suspended starch particles, Shock Waves **9**(3) 165-172 (Jun 1999), 12T232

Super-spherical cumulation: Shock collapse which is more intense than the spherical one, Shock Waves **9**(3) 149-158 (Jun 1999), 12T233

164D. Shock, sonic boom, blast

Modification of the elementary Mach reflection theory of an oblique shock wave at a rigid wall, J Tech Phys **39**(1) 67-75 (1998), 1A272

Triple-shock entropy theorem and its consequences, J Fluid Mech **366** 179-210 (Jul 1998), 1A273

Formulations of artificial viscosity for multi-dimensional shock wave computations, J Comput Phys **144**(1) 70-97 (Jul 1998), 1T274

Modeling of supersonic mixing and shock-wave structure in two jets interaction, Indian J Eng Mat Sci **5**(3) 97-105 (Jun 1998), 1A1128

Model experiment to study sonic boom propagation through turbulence - Part II: Effect of turbulence intensity and propagation distance through turbulence, J Acoust Soc Am **104**(3-PT1) 1301-1309 (Sep 1998), 2A330

Non-reflecting boundary conditions applicable to general purpose CFD simulators, Int J Numer Methods Fluids **28**(3) 523-540 (Sep 1998), 2A331

Cellular detonation stability - Part 1: A normal-mode linear analysis, J Fluid Mech **368** 229-262 (Aug 1998), 3A255

Direct numerical simulation of turbulent compression ramp flow, Theor Comput Fluid Dyn **12**(2) 109-129 (Sep 1998), 3A256

Hybrid upwind methods for the simulation of unsteady shock-wave diffraction over a cylinder, Comput Methods Appl Mech Eng **162**(1-4) 165-185 (Aug 1998), 3A257

Mach wave radiation by mixing layers - Part II: Analysis of the source field, Theor Comput Fluid Dyn **12**(2) 91-108 (Sep 1998), 3A258

Test cases for unsteady 1D flow with variable cross-section, Acta Mech **131**(1-2) 1-25 (1998), 3A259

Effects of Mach number on turbulent separation behaviors induced by blunt fin, Exp Fluids **25**(4) 347-351 (Sep 1998), 3A1080

Prediction method of unsteady combustion around hypersonic projectile in stoichiometric hydrogen-air, AIAA J **36**(10) 1834-1841 (Oct 1998), 3A1375

Monte Carlo direct simulation of rotational relaxation of nitrogen through high total temperature shock waves using classical trajectory calculations, Phys Fluids **10**(10) 2689-2691 (Oct 1998), 4T250

Numerical investigation of 3D shock focusing effects on the basis of the Euler equation, Comput Fluids **28**(1) 121-138 (Jan 1999), 4A251

Shock waves in a uniform bubbly flow, Phys Fluids **10**(10) 2661-2668 (Oct 1998), 4T252

Stabilization of the hydrodynamic flame instability by a weak shock, Phys Fluids **10**(10) 2669-2675 (Oct 1998), 4T1427

Linear relationship between Hugoniot temperature and shock Mach number, Shock Waves **8**(6) 321-325 (Dec 1998), 5T236

Microwave detection of molecules formed by shock wave induced reactions, Shock Waves **8**(6) 385-388 (Dec 1998), 5T237

Nonlinear oscillator concept for 1D pulsating detonations, Shock Waves **8**(6) 351-359 (Dec 1998), 5T238

Report on the 21st International Symposium on Shock Waves, Shock Waves **8**(6) 383-384 (Dec 1998), 5T239

Shock wave propagation in a branched duct, Shock Waves **8**(6) 375-381 (Dec 1998), 5T240

Entrainment of fine particles from surfaces by impinging shock waves, Exp Fluids **26**(1-2) 116-125 (Jan 1999), 6A257

Group theoretic method for a converging shock wave problem, Appl Math Lett **12**(2) 79-86 (Mar 1999), 6A258

Measurements of the vertical correlation in turbulence under broken waves, Coastal Eng **35**(4) 231-249 (Dec 1998), 6A259

Experimental observations of the mixing transition in a shock-accelerated gas curtain, Phys Fluids **11**(1) 186-200 (Jan 1999), 6A1275

Numerical studies of exotic shock wave behavior, Phys Fluids **11**(2) 463-475 (Feb 1999), 7A241

Experiments on attenuation of weak shock waves in high-speed train tunnels, JSME Int J Ser B **41**(4) 814-821 (Nov 1998), 8T256

Mechanistic model for shock initiation of solid explosives, Phys Fluids **11**(3) 710-736 (Mar 1999), 8A257

Passive alleviation of micro-pressure waves from tunnel portals, J Sound Vib **220**(5) 921-940 (Mar 1999), 8A258

Simulating shock to detonation transition: Algorithm and results, J Comput Phys **150**(1) 128-142 (Mar 1999), 8A259

Sound generation by shock-vortex interactions, J Fluid Mech **380** 81-116 (Feb 1999), 8A308

Shock-induced flow resonance in supersonic jets of complex geometry, Phys Fluids **11**(3) 692-709 (Mar 1999), 8A1142

Interaction of two conical shocks (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 85-90 (Jan 1999), 9A276

Multi-dimensional stability of weak-heat-release detonations, J Fluid Mech **382** 109-135 (Mar 1999), 9A277

Time-dependent simulations of point explosions with heat conduction, Phys Fluids **11**(5) 1091-1095 (May 1999), 9A278

Necessary condition for adiabatic explosion behind a shock of arbitrary dynamics (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 95-102 (Jan 1999), 9A314

Entropy satisfaction of a conservative shock-tracking method, SIAM J Numer Anal **36**(2) 529-550 (Jan 1999), 9A1148

Adaptive Riemann solver using a two-shock approximation, Comput Fluids **28**(6) 741-777 (Jul 1999), 10A296

Evolution of shock waves and the primary vortex loop discharged from a square cross-sectional tube, Proc Inst Mech Eng J: Eng Trib **213**(J2) 1-10 (1999), 10T297

Chaotic dynamics of an unstable Bugers equation, Physica D **129**(1-2) 57-67 (May 1999), 11A257

Computational study of curved shock-vortex interaction, Int J Numer Methods Fluids **30**(3) 257-277 (Jun 1999), 11A282

Condition for explosion triggered by a shock resulting from the expansion of a compressible medium (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 467-470 (May 1999), 11A283

Influence of the downstream pressure on the shock wave reflection phenomenon in steady flows, J Fluid Mech **386** 213-232 (May 1999), 11A284

Derivation of Forchheimer terms and their verification by application to waves propagation in porous media, Int J Multiphase Flow **25**(4) 683-704 (Jun 1999), 11T1073

Formation of blast waves as a result of a low pressure domain decomposition, Shock Waves **9**(3) 159-164 (Jun 1999), 12T231

Critical tube diameter for detonation transmission and critical initiation energy of spherical detonation, Shock Waves **9**(2) 113-123 (Apr 1999), 12A234

Investigation of interaction between reflected shocks and growing perturbation on an interface, Shock Waves **9**(2) 81-86 (Apr 1999), 12T235

Large-eddy simulation of the shock-turbulence interaction, J Comput Phys **152**(2) 517-549 (Jul 1999), 12A236

Numerical simulations of nozzle starting process, Shock Waves **9**(2) 73-79 (Apr 1999), 12T237

Shock wave deformation in shock-vortex interactions, Shock Waves **9**(2) 95-105 (Apr 1999), 12T238

Shock waves in nonuniform gas, Phys Fluids **11**(7) 1921-1935 (Jul 1999), 12T239

Shock waves in solids: An evolutionary perspective, Shock Waves **9**(3) 193-200 (Jun 1999), 12T240

Numerical simulation of dust explosions in pneumatic conveyors, Shock Waves **9**(2) 125-139 (Apr 1999), 12T1447

164F. Reflection, refraction, diffraction, scattering, absorption

Multichannel resonant scattering theory applied to the acoustic scattering by an eccentric elastic cylindrical shell immersed in a fluid, Wave Motion **28**(4) 297-318 (Dec 1998), 3A230

Mach wave radiation by mixing layers - Part I: Analysis of the sound field, Theor Comput Fluid Dyn **12**(2) 73-90 (Sep 1998), 3A260

Stability and analogy of shock wave reflection in steady flow, Shock Waves **8**(6) 367-374 (Dec 1998), 5A241

Role of turbulence in detonation induced by Mach stem reflection, Shock Waves **8**(6) 327-336 (Dec 1998), 5T1376

Experiments on attenuation of weak shock waves in high-speed train tunnels, JSME Int J Ser B **41**(4) 814-821 (Nov 1998), 8T256

Formation of a jet and vortices behind a shock wave reflected from a concave body, Shock Waves **9**(1) 31-35 (Feb 1999), 10T298

Shock and blast attenuation by aqueous foam barriers: Influences of barrier geometry, Shock Waves **9**(1) 37-47 (Feb 1999), 10A300

Influence of the downstream pressure on the shock wave reflection phenomenon in steady flows, J Fluid Mech **386** 213-232 (May 1999), 11A284

Critical tube diameter for detonation transmission and critical initiation energy of spherical detonation, Shock Waves **9**(2) 113-123 (Apr 1999), 12A234

Investigation of interaction between reflected shocks and growing perturbation on an interface, Shock Waves **9**(2) 81-86 (Apr 1999), 12T235

Shock wave deformation in shock-vortex interactions, Shock Waves **9**(2) 95-105 (Apr 1999), 12T238

164K. Other problems of compressible fluids

Asymptotic wave propagation in a non-Newtonian compressible fluid with small dissipation, J Eng Math **33**(4) 403-419 (May 1998), 2A332

Velocity measurements in turbulent gaseous mixtures induced by Richtmyer-Meshkov instability, Phys Fluids **10**(11) 2698-2700 (Nov 1998), 4T1203

Numerical analysis on heat induced vibration of air column, JSME Int J Ser C **41**(3) 674-681 (Sep 1998), 9A279

Repeated application of shock waves as a possible method for food preservation, Shock Waves **9**(1) 49-55 (Feb 1999), 10T299

Two-dimensional reactive flow dynamics in cellular detonation waves, Shock Waves **9**(1) 11-17 (Feb 1999), 10A1158

Computational study of curved shock-vortex interaction, Int J Numer Methods Fluids **30**(3) 257-277 (Jun 1999), 11A282

Super-spherical cumulation: Shock collapse which is more intense than the spherical one, Shock Waves **9**(3) 149-158 (Jun 1999), 12T233

Shock waves in nonuniform gas, Phys Fluids **11**(7) 1921-1935 (Jul 1999), 12T239

164Y. Computational techniques

Formulations of artificial viscosity for multi-dimensional shock wave computations, J Comput Phys **144**(1) 70-97 (Jul 1998), 1T274

Non-reflecting boundary conditions applicable to general purpose CFD simulators, Int J Numer Methods Fluids **28**(3) 523-540 (Sep 1998), 2A331

Optimal and wavelet-based shock wave detection and estimation, J Acoust Soc Am **104**(2-PT1) 955-963 (Aug 1998), 2A333

Nonclassical dense gas flows for simple geometries, AIAA J **36**(10) 1842-1847 (Oct 1998), 3A254

Monte Carlo direct simulation of rotational relaxation of nitrogen through high total temperature shock waves using classical trajectory calculations, Phys Fluids **10**(10) 2689-2691 (Oct 1998), 4T250

Numerical investigation of 3D shock focusing effects on the basis of the Euler equation, Comput Fluids **28**(1) 121-138 (Jan 1999), 4A251

Stability and analogy of shock wave reflection in steady flow, Shock Waves **8**(6) 367-374 (Dec 1998), 5A241

Numerical simulation of acoustic waves interacting with a shock wave in a quasi-1D convergent-divergent nozzle using an unstructured finite volume algorithm, Int J Comput Fluid Dyn **10**(4) 281-289 (1998), 6T260

Numerical studies of exotic shock wave behavior, Phys Fluids **11**(2) 463-475 (Feb 1999), 7A241

Nonstationary compressible flow in ducts with varying cross-section, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 225-243 (1998), 7A1009

Simulating shock to detonation transition: Algorithm and results, J Comput Phys **150**(1) 128-142 (Mar 1999), 8A259

Method for separating shock wave motion and turbulence in LDV measurements, Exp Fluids **26**(4) 358-370 (Mar 1999), 9A280

IUTAM Symposium on Computational Methods for Unbounded Domains (Kluwer, Netherlands, 1998) 10N8

Mixed FE-finite volume formulation of the black-oil model, SIAM J Sci Comput **20**(3) 970-997 (Oct 1998), 10A50

Adaptive Riemann solver using a two-shock approximation, Comput Fluids **28**(6) 741-777 (Jul 1999), 10A296

Evolution of shock waves and the primary vortex loop discharged from a square cross-sectional tube, Proc Inst Mech Eng J: Eng Trib **213**(J2) 1-10 (1999), 10T297

Shock and blast attenuation by aqueous foam barriers: Influences of barrier geometry, Shock Waves **9**(1) 37-47 (Feb 1999), 10A300

Large-eddy simulation of the shock-turbulence interaction, J Comput Phys **152**(2) 517-549 (Jul 1999), 12A236

Remark on numerical errors downstream of slightly viscous shocks, SIAM J Numer Anal **36**(3) 853-863 (Mar-May 1999), 12A241

164Z. Experimental techniques

Numerical and experimental study of a micro-blast wave generated by pulsed-laser beam focusing, Shock Waves **8**(6) 337-349 (Dec 1998), 5A235

Microwave detection of molecules formed by shock wave induced reactions, Shock Waves **8**(6) 385-388 (Dec 1998), 5T237

PLIF thermometry in shock tunnel flows using a Raman-shifted tunable excimer laser, Shock Waves **8**(5) 275-284 (Oct 1998), 5A997

Measurements of the vertical correlation in turbulence under broken waves, Coastal Eng **35**(4) 231-249 (Dec 1998), 6A259

Evolution of shock waves and the primary vortex loop discharged from a square cross-sectional tube, Proc Inst Mech Eng J: Eng Trib **213**(J2) 1-10 (1999), 10T297

Diaphragm rupture: Impingement by a conically-nosed ram-accelerator projectile, Shock Waves **9**(1) 19-30 (Feb 1999), 10T301

Obturator and detonation experiments in the subdetonative ram accelerator, Shock Waves **9**(3) 181-191 (Jun 1999), 12A242

166. SOLID FLUID INTERACTIONS

166A. General theory

Energy flow analysis of beams and plates for random distributed loading, J Fluids Struct **12**(3) 315-333 (Apr 1998), 1A141

Influence of shape on the Rayleigh conductivity of a wall aperture in the presence of grazing flow, J Fluids Struct **12**(3) 335-351 (Apr 1998), 1T279

Theoretical and experimental predictions of the hydroelastic response of a very large floating structure in waves, Appl Ocean Res **20**(3) 135-144 (Jun 1998), 2T339

Effect of turbulence of fluidelastic instability in tube bundles: A nonlinear analysis, J Fluids Struct **12**(5) 561-590 (Jul 1998), 2T346

Analysis of fluid-structure interaction by means of dynamic unstructured meshes, J Fluids Eng **120**(4) 792-798 (Dec 1998), 3A261

Analysis of a nonlinear fluid-structure interaction problem in velocity-displacement formulation, Nonlinear Anal **35**(5) 561-587 (Mar 1999), 4T1083

Nonlocal approach in mathematical problems of fluid-structure interaction, Math Methods Appl Sci **22**(1) 13-42 (Jan 1999), 6A261

Normal modes of fluid-structure interaction in internal flows, J Hydrodyn **10**(4) 71-89 (1998), 7A243

Nonlinear coupled motions for a given two-point tension mooring system, China Ocean Eng **12**(3) 253-264 (1998), 7T255

Comparison of theory and experiment of aeroacoustic loads and deflections, J Fluids Struct **13**(1) 3-35 (Jan 1999), 8A267

Water impact of general 2D sections, Appl Ocean Res **21**(1) 1-15 (Feb 1999), 8A276

Acoustics of Fluid-Structure Interactions (Cambridge UP, New York, 1998) 9R7

Simulations of fluid-structure interaction using patched-overset grids, J Fluids Struct **13**(2) 191-207 (Feb 1999), 9A281

Design and fabrication of submerged cylindrical laminates - I, Int J Solids Struct **36**(26) 3917-3943 (Sep 1999), 10A635

Design and fabrication of submerged cylindrical laminates - II: Effect of fiber pre-stress, Int J Solids Struct **36**(26) 3945-3976 (Sep 1999), 10A636

Effect of internal pipes on the fundamental frequency of liquid sloshing in a circular tank, Appl Ocean Res **21**(3) 133-143 (Jun 1999), 11A286
Fluid-Structure Interaction in Acoustics, Flow Turbulence Combust **61**(1-4) 1-300 (1998), 12A243
Variational principles of fluid full-filled elastic solids, Appl Math Mech **20**(3) 262-268 (Mar 1999), 12A244
Improvement of the time delayed quasi-steady model for the oscillations of circular cylinders in cross-flow, J Fluids Struct **13**(3) 291-307 (Apr 1999), 12T249

166B. Nonlinear theory

Numerical study of nonlinear dynamics of 2D flexible elastic compound in liquid (Russian), Prikl Mekh (Appl Mech) **34**(9) 98-103 (1998), 6A278
Investigation of nonlinear models for a cylinder row in a cross flow, J Pressure Vessel Tech **121**(2) 133-141 (May 1999), 9A282
Fluid-Structure Interaction in Acoustics, Flow Turbulence Combust **61**(1-4) 1-300 (1998), 12A243

166C. External flow

Axisymmetrical problem of impact of the blunt solid on the surface of compressible liquid with regard for outsticking, Prikl Mekh (Appl Mech) **34**(2) 9-16 (1998), 1A275
Large displacement analysis for ideally flexible sails, Eur J Mech A **17**(4) 619-636 (1998), 1A276
Helical wave oscillations in a row of cylinders in a cross-flow, J Fluids Struct **12**(5) 591-613 (Jul 1998), 2A334
Extreme mooring cable tensions due to wave-frequency excitations, Appl Ocean Res **20**(4) 237-249 (Aug 1998), 2T338
Wave loads on rudders, Ship Tech Res **45**(3) 118-125 (Jul 1998), 3A262
In-depth study of vortex shedding, acoustic resonance and turbulent forces in normal triangle tube arrays, J Fluids Struct **12**(6) 717-758 (Aug 1998), 4A253
Prediction of hydrodynamic forces on submarine pipelines using an improved Wake II Model, Ocean Eng **26**(5) 431-462 (May 1999), 4T254
Three-dimensional hydrodynamic model in curvilinear coordinates with collocated grid, Int J Numer Methods Fluids **28**(7) 1109-1134 (Nov 1998), 4A255
Vortex-induced oscillation and lift of yawed circular cylinders in cross-flow, J Fluids Struct **12**(6) 759-777 (Aug 1998), 4T256
Stability analysis of the heave motion of marine cable-body systems, Ocean Eng **26**(6) 531-546 (Jun 1999), 4A266
Remote identification of impact forces on loosely supported tubes: Analysis of multi-supported systems, J Pressure Vessel Tech **121**(1) 61-70 (Feb 1999), 5A174
Numerical analysis of interference galloping of two identical circular cylinders, Wind Struct **1**(3) 243-253 (Sep 1998), 5A242
Flow-induced vibration: Recent findings and open questions, Nucl Eng Des **185**(2-3) 249-276 (Oct 1998), 5A1508
Oscillating rectangular and octagonal profiles modeling of fluid forces, J Fluids Struct **12**(7) 859-882 (Oct 1998), 6T262
Dynamic structure-fluid interaction response of a composite cylindrical shell submerged in water, China Ocean Eng **12**(3) 297-307 (1998), 7T252
Unsteady lift force on a towed sphere, J Fluids Struct **12**(8) 949-958 (Nov 1998), 8A260
Wave propagation past a pile-restrained floating breakwater, Int J Offshore Polar Eng **8**(4) 265-269 (Dec 1998), 10A295
Wave and wave-current loading on a bottom-mounted circular cylinder, Int J Offshore Polar Eng **8**(2) 122-129 (Jun 1998), 10A302
Predictions of Morison-type forces in irregular waves at high Reynolds number, Int J Offshore Polar Eng **8**(4) 273-279 (Dec 1998), 10A1109
Study of parametric roll motions by fully nonlinear numerical wave tank, Int J Offshore Polar Eng **8**(4) 251-257 (Dec 1998), 10A1244
Hydrodynamic forces on the advancing slender body with speed effects - II: Wave exciting forces, Int Shipbuild Prog **46**(445) 29-41 (Apr 1999), 10A1251
Curved slender structures in nonuniform flows, J Fluid Mech **385** 21-40 (Apr 1999), 11A289
Steam generator fretting-wear damage: A summary of recent findings, J Pressure Vessel Tech **121**(3) 304-310 (Aug 1999), 11A756
Fluid behavior of side-by-side circular cylinders in steady cross-flow, J Fluids Struct **13**(3) 309-338 (Apr 1999), 12A245
New design recommendations for fluidelastic instability in heat exchanger tube bundles, J Fluids Struct **13**(3) 361-379 (Apr 1999), 12T246
Characteristics of low-frequency variations embedded in vortex-shedding process, J Fluids Struct **13**(3) 339-359 (Apr 1999), 12T1079

166D. Internal flow (incl sloshing)

Multibody effect on nutational dynamics of spin-stabilized satellites with fuel sloshing, J Guidance Control Dyn **21**(4) 566-571 (Jul-Aug 1998), 1A184
Active control of cantilevered pipes conveying fluid with constraints on input energy, J Fluids Struct **12**(5) 615-628 (Jul 1998), 2T505
Solitary waves in a thick walled elastic tube, Appl Math Model **22**(8) 583-599 (Aug 1998), 3A263
Vortex damping of sloshing in tanks with baffles, J Appl Math Mech **62**(2) 217-224 (1998), 3A264
Dynamic characteristics of sandwich beam with embedded Electro-Rheological fluid, J Intelligent Mat Syst Struct **9**(1) 60-68 (Jan 1998), 4A633
Effect of flow-induced vibration on local flow parameters of two-phase flow, Nucl Eng Des **185**(2-3) 113-125 (Oct 1998), 5A1010
Thermal hydraulic study ou a high-temperature gas-gas heat exchanger with helically coiled tube bundles, Nucl Eng Des **185**(2-3) 141-151 (Oct 1998), 5A1512
Ride behavior of trucks transporting liquids, Heavy Vehicle Syst **5**(3-4) 261-276 (1998), 7A188
Model experiment of sloshing in tanks (Chinese), J Shanghai Jiaotong Univ **32**(11) 114-117 (Nov 1998), 7A242
Normal modes of fluid-structure interaction in internal flows, J Hydrodyn **10**(4) 71-89 (1998), 7A243
Research on solid-liquid coupling dynamics of pipe conveying fluid, Appl Math Mech **19**(11) 1065-1071 (Nov 1998), 7A244
Second-order forced waves in an eccentrically-rotating circular cylinder, Int J Eng Sci **37**(3) 395-406 (Feb 1999), 7A245
Vibration and damping analysis of fluid filled orthotropic cylindrical shells with constrained viscoelastic damping, Comput Struct **70**(3) 363-376 (Feb 1999), 7A246
Efficient liquid slosing damper for vibration control, J Fluids Struct **12**(8) 1055-1071 (Nov 1998), 8A113
Parametric excitation of nonlinear elastic systems involving hydrodynamic sloshing impact, Nonlinear Dyn **18**(1) 25-50 (Jan 1999), 8A261
Spinning stability analysis of spacecraft partially filled with liquid (Chinese), J Shanghai Jiaotong Univ **32**(12) 64-68 (Dec 1998), 8A285
Stability of a two-layer inviscid flow between an elastic layer and a rigid boundary, J Appl Mech **66**(1) 197-203 (Mar 1999), 8A1160
Kinematic characteristics of magnetic fluid sloshing in a rectangular container subject to non-uniform magnetic fields, Exp Fluids **26**(3) 215-221 (Feb 1999), 8A1210
Added fluid mass for bellows expansion joints in axial vibrations, J Pressure Vessel Tech **121**(2) 216-219 (May 1999), 9A283
Boundary element method for small-amplitude viscous fluid sloshing in couple with structural vibration, Acta Mech Solida Sinica **12**(1) 9-21 (1999), 9A284
Nonlinear vibrations of a structure caused by a water sloshing in a cylindrical tank, JSME Int J Ser C **41**(3) 639-651 (Sep 1998), 9A285
Vibrations of circular tubes and shells filled and partially immersed in dense fluids, J Sound Vib **221**(4) 567-585 (Apr 1999), 9A289
Discrete adaptive state feedback control based on a strict positive realness and its application to the liquid container transfer system, JSME Int J Ser C **41**(3) 371-377 (Sep 1998), 9A458
Analytical model for self-excited vibration of an overflow flexible plate weir, J Pressure Vessel Tech **121**(3) 296-303 (Aug 1999), 11A285
Effect of internal pipes on the fundamental frequency of liquid sloshing in a circular tank, Appl Ocean Res **21**(3) 133-143 (Jun 1999), 11A286
Investigation on the applicability of simplified mathematical models to the roll-sloshing problem, Int J Offshore Polar Eng **9**(2) 97-104 (Jun 1999), 12A247

166E. Vibration of structures in fluids

Technologies in Reactor Safety, Fluid-Structure Interaction, Sloshing and Natural Hazards Engineering (ASME, New York, 1998) 1N5
Nonlinear galloping of sagged cables in 1:2 internal resonance, J Sound Vib **214**(5) 915-940 (Jul 1998), 1A150
Wind-induced coupled translational-torsional motion of tall buildings, Wind Struct **1**(1) 43-57 (Mar 1998), 1A174
Wind resistant properties of Tiger Gate suspension bridge, Wind Struct **1**(1) 67-75 (Mar 1998), 1A179
Acoustic power of fluid-loaded circular plate located in finite baffle, Arch Acoust **22**(4) 423-435 (1997), 1A277
Active control of the structural and acoustic responses of a fluid-loaded plate - Part I: Analysis of the physical system, J Low Frequency Noise Vib **17**(1) 11-25 (1998), 1A278
Influence of shape on the Rayleigh conductivity of a wall aperture in the presence of grazing flow, J Fluids Struct **12**(3) 335-351 (Apr 1998), 1T279
Instability of pipes and cables in non-homogeneous cross-flow, Wind Struct **1**(1) 59-67 (Mar 1998), 1A280
Structural homogenized analysis for a nuclear reactor core, Nucl Eng Des **183**(1-2) 151-156 (Jul 1998), 1A281
Symposium on fluid-structure interactions, aeroelasticity, flow-induced vibration and noise, held at Dallas, TX, November, 16-21, 1997, J Fluids Struct **12**(3) 387-388 (Apr 1998), 1T282
Vibroresonance conditions of motion of gas-liquid media in the structures under polyharmonic excitation, Prikl Mekh (Appl Mech) **34**(1) 64-70 (1998), 1A283
Full numerical solution for the far-field and near-field scattering from a fluid-loaded elastic plate with distributed mass or stiffness inhomogeneity, J Acoust Soc Am **104**(2-PT1) 915-925 (Aug 1998), 2A335
Gravity effects on the coupled frequencies of a 2D fluid-structure problem with a free surface, J Sound Vib **215**(2) 331-342 (Aug 1998), 2A336
Hydrodynamic damping of a cylinder in still water and in a transverse current, Appl Ocean Res **20**(4) 251-259 (Aug 1998), 2A337
Gust loading on streamlined bridge decks, J Fluids Struct **12**(5) 511-536 (Jul 1998), 2A347
Free vibration of immersed column carrying a tip mass, J Sound Vib **216**(1) 147-157 (Sep 1998), 3A140
Modeling and theoretical predictions of sound radiation from composite cylindrical thin shell immersed in heavy fluids - II (Chinese), J Xi'an Jiaotong Univ **32**(9) 84-88 (1998), 3A265
Stability of translational galloping vibration of cylinders at different mean angles of attack, J Sound Vib **215**(5) 1183-1194 (Sep 1998), 3T266
Transient response analysis of a very large floating structure by FEM, Proc JSCE **598**(I-44) 1-9 (Jul 1998), 3A267
Theoretical prediction of sound radiation from double-layer composite cylindrical thin shell immersed in heavy fluid - Part I (Chinese), J Xi'an Jiaotong Univ **32**(7) 76-79 (1998), 3A291
Implementation and experimental validation of a new viscothermal acoustic FE for acousto-elastic problems, J Sound Vib **216**(1) 159-185 (Sep 1998), 3A338
Efficient computation of nonlinear responses of a rotating assembly incorporating the squeeze-film damper, Comput Methods Appl Mech Eng **164**(3-4) 363-373 (Oct 1998), 4A173
In-depth study of vortex shedding, acoustic resonance and turbulent forces in normal triangle tube arrays, J Fluids Struct **12**(6) 717-758 (Aug 1998), 4A253
Vortex-induced oscillation and lift of yawed circular cylinders in cross-flow, J Fluids Struct **12**(6) 759-777 (Aug 1998), 4T256
Homogenization and Bloch wave method for fluid tube bundle interaction, Comput Methods Appl Mech Eng **164**(3-4) 333-361 (Oct 1998), 4A257
Hydrodynamic study of the Olmsted wicket gate using a 1:25-scale model, Mech Syst Signal Processing **12**(5) 661-677 (Sep 1998), 4A258
Hydroelastic vibration of free-edge annular plates, J Vib Acoust **121**(1) 26-32 (Jan 1999), 4A259
Analysis of fluid-structure interactions using a time-marching technique, J Fluids Struct **12**(6) 631-654 (Aug 1998), 4A277
Active structural acoustic control of an infinite ribbed plate under light fluid loading, J Acoust Soc Am **104**(6) 3398-3407 (Dec 1998), 5A243
Chaotic oscillations of two elastically supported hinged plates in a steady uniform flow, Chaos Solitons Fractals **9**(12) 1967-1976 (Dec 1998), 5A244
Fluid damping controlled instability of tubes in cross-flow, J Sound Vib **217**(5) 883-907 (Nov 1998), 5A245
Study of vibrations of naturally twisted threads with loads in liquid (Russian), Prikl Mekh (Appl Mech) **34**(9) 90-97 (1998), 6A155
Added mass of a membrane vibrating at finite amplitude, J Fluids Struct **12**(7) 919-932 (Oct 1998), 6A156
Oscillating rectangular and octagonal profiles modeling of fluid forces, J Fluids Struct **12**(7) 859-882 (Oct 1998), 6T262
Modal-type analysis of the interactions for submerged elastic structures with the surrounding heavy acoustic medium, J Acoust Soc Am **105**(1) 106-121 (Jan 1999), 6A263
Natural frequencies of a fluid-filled anisotropic spherical shell, J Acoust Soc Am **105**(1) 174-182 (Jan 1999), 6A264
Nonlinear vibrations of simply supported, circular cylindrical shells coupled to quiescent fluid, J Fluids Struct **12**(7) 883-918 (Oct 1998), 6T265
Active control of the structural and acoustic responses of a fluid-loaded plate - Part II: Feedforward control, J Low Frequency Noise Vib **17**(2) 99-115 (1998), 6A309
Bifurcation and chaos in flexural vibration of a baffled plate in mean flow, J Acoust Soc Am **105**(2) 732-742 (Feb 1999), 7A247
Aeroelastic structural acoustic control, J Acoust Soc Am **105**(2) 743-754 (Feb 1999), 7A347
Chaotic response of panel vibrations forced by turbulent boundary layer and sound, AIAA J **37**(3) 289-295 (Mar 1999), 8A161
Parametric excitation of nonlinear elastic systems involving hydrodynamic sloshing impact, Nonlinear Dyn **18**(1) 25-50 (Jan 1999), 8A261
Dynamic response analysis of tube array in partially filled calandria, Earthquake Eng Struct Dyn **28**(3) 287-309 (Mar 1999), 8A262
Theoretical model for nonlinear planar motions of rotors under fluid confinement, J Fluids Struct **13**(1) 103-126 (Jan 1999), 8T263
Simulation of vehicle pass-by noise radiation, J Vib Acoust **121**(2) 197-203 (Apr 1999), 8A306
Wind tunnel blockage effects on aerodynamic behavior of bluff body, Wind Struct **1**(4) 351-364 (Dec 1998), 8A1029
Vortex-induced vibrations of an elastic circular cylinder, J Fluids Struct **13**(2) 165-189 (Feb 1999), 9T145
Numerical analysis of nonlinear wave propagation in elastic submerged cables, J Offshore Mech Arctic Eng **121**(2) 116-125 (May 1999), 9A238
Leakage-flow-induced vibrations of an axisymmetric body - Part 1: Analysis of the moment acting on an axisymmetric body for rotational motion, JSME Int J Ser C **41**(3) 347-354 (Sep 1998), 9A286
Leakage-flow-induced vibrations of an axisymmetric body - Part 2: Theories and experiments on the stability of an axisymmetric body for one dof of rotational motion, JSME Int J Ser C **41**(3) 355-363 (Sep 1998), 9A287
Study of the characteristics of vibration in a double shell in a fluid field, J Huazhong Univ Sci Tech **27**(1) 72-73 (Jan 1999), 9A288
Vibrations of circular tubes and shells filled and partially immersed in dense fluids, J Sound Vib **221**(4) 567-585 (Apr 1999), 9A289
Efficiency of a monopole sound source in the vicinity of a water-loaded plate, J Sound Vib **221**(2) 251-272 (Mar 1999), 9A332
Dynamics of Thin Walled Elastic Bodies (Academic, San Diego, CA, 1998) 10R5
Modeling of nonlinear oscillations of elastic structures in heavy fluid loading conditions, J Sound Vib **222**(3) 425-451 (May 1999), 10A303
Study of vibrations of naturally twisted threads with loads in liquid (Russian), Prikl Mekh (Appl Mech) **34**(11) 104-109 (1998), 10A304
Time-frequency analysis of the complex pressure scattered by immersed tubes, Rev Francaise Mec **0**(1) 49-53 (Mar 1999), 10A305
Vibrations of a plate in fluid and associated damping due to energy transmission by dilatational waves, J Theor Appl Mech **37**(2) 267-282 (1999), 10A306
Theoretical prediction of sound radiation from a heavy fluid-loaded cylindrical coated shell, Chinese J Mech Eng **11**(4) 249-256 (Dec 1998), 10A330
Asymptotic behavior of solutions to nonlinear shells in a supersonic flow, Numer Functional Anal Optimization **20**(3-4) 279-300 (1999), 11A287
Circumferential waves on an immersed, fluid-filled elastic cylindrical shell, J Acoust Soc Am **105**(5) 2704-2709 (May 1999), 11A288
Curved slender structures in nonuniform flows, J Fluid Mech **385** 21-40 (Apr 1999), 11A289
Acoustics of fluid-filled boreholes with pipe: Guided propagation and radiation, J Acoust Soc Am **105**(6) 3057-3066 (Jun 1999), 12A248
Improvement of the time delayed quasi-steady model for the oscillations of circular cylinders in cross-flow, J Fluids Struct **13**(3) 291-307 (Apr 1999), 12T249
Incompressible flow past oscillatory wings of low aspect ratio by the integral equations method, Int J Numer Methods Eng **45**(9) 1187-1201 (Jul 1999), 12A250
Low-frequency shear wave propagation in periodic systems of alternating solid and viscous fluid layers, J Acoust Soc Am **106**(1) 57-60 (Jul 1999), 12A251
Low-frequency slow-wave dispersion computations by compound-matrix propagation, J Acoust Soc Am **106**(1) 61-72 (Jul 1999), 12A252
Orthogonality of wet modes in a closed spherical shell immersed in deep water and its application in dynamic response analysis (Chinese), J Huazhong Univ Sci Tech **27**(3) 22-24 (Mar 1999), 12A253
Propagation characteristics of leaky Lamb waves in a liquid-loaded double-layered substrate consisting of a thin piezoelectric ceramic plate and a thin glass plate, J Acoust Soc Am **105**(6) 3290-3294 (Jun 1999), 12A254
Research on stability of open bottom storage platform, J Hydrodyn **11**(2) 14-19 (1999), 12T258

166F. interactions of waves with flexible structures

Symposium on fluid-structure interactions, aeroelasticity, flow-induced vibration and noise, held at Dallas, TX, November, 16-21, 1997, J Fluids Struct **12**(3) 387-388 (Apr 1998), 1T282

Nonlinear wave modulation in a fluid filled thick elastic tube, Int J Eng Sci **36**(10) 1061-1082 (Aug 1998), 1A284

Theory of acoustic streaming generated by ultrasonic Lamb waves, J Acoust Soc Am **104**(1) 86-90 (Jul 1998), 1A285

Vibration of a hydroelastic system consisting of a sector shell and viscous liquid in zero gravity, J Fluids Struct **12**(3) 367-385 (Apr 1998), 1A286

Interactions of a horizontal flexible membrane with oblique incident waves, J Fluid Mech **367** 139-161 (Jul 1998), 2A321

Extreme mooring cable tensions due to wave-frequency excitations, Appl Ocean Res **20**(4) 237-249 (Aug 1998), 2T338

Theoretical and experimental predictions of the hydroelastic response of a very large floating structure in waves, Appl Ocean Res **20**(3) 135-144 (Jun 1998), 2T339

Interactions of cnoidal waves with cylinder arrays, Ocean Eng **26**(1) 1-20 (Jan 1999), 3T268

Motion of large bottom particles (cobbles) in a wave-induced oscillatory flow, Coastal Eng **34**(3-4) 197-219 (Sep 1998), 3A269

Dragged surge motion of tension leg platforms and strained elastic tethers, Ocean Eng **26**(6) 575-594 (Jun 1999), 4T260

Fully nonlinear interactions of waves with a 3D body in uniform currents, Appl Ocean Res **20**(5) 309-321 (Oct 1998), 4A261

Nonlinear wave modulation in a prestressed fluid field thin elastic tube, Int J Non-Linear Mech **34**(1) 123-138 (Jan 1999), 4A265

Contribution of radiation and viscous loss in a fluid loaded flexural plate wave sensor, J Sound Vib **217**(1) 113-126 (Oct 1998), 4A426

Wave forces and moments on an intake well, Ocean Eng **26**(4) 363-380 (Apr 1999), 4T1003

Symmetric form of the DNL absorbing boundary condition for the ship wave resistance problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 317-338 (1998), 4A1063

Wave-induced mean flows in vertical rubble mound structures, Coastal Eng **35**(4) 251-281 (Dec 1998), 6T266

Interaction of sound from supersonic jets with nearby structures, AIAA J **36**(12) 2153-2162 (Dec 1998), 6A286

Numerical solution for the second-order wave interaction with porous structures, Int J Numer Methods Fluids **29**(3) 265-288 (Feb 1999), 7A71

Influence of damping on waves and vibrations, Mech Syst Signal Processing **13**(1) 1-30 (Jan 1999), 7T202

Dynamic pressures on inclined cylinders due to freak waves, Ocean Eng **26**(9) 841-863 (Oct 1999), 7T248

Effects of wave data on ship design bending moments (Chinese), J Shanghai Jiaotong Univ **32**(11) 38-43 (Nov 1998), 7A249

New model for acoustic-structure interaction and its exponential stability, Quart Appl Math **57**(1) 157-179 (Mar 1999), 7A250

Prediction of wave pressures on smooth impermeable seawalls, Ocean Eng **26**(8) 739-765 (Aug 1999), 7T251

Transient response of submerged orthotropic cylindrical shells exposed to underwater shock, Composite Struct **43**(3) 179-193 (Nov 1998), 7A575

Obtaining the free frequencies of the non-rigid Earth, Celest Mech Dyn Astron **71**(2) 95-108 (1998), 8A287

Dressed solitary waves in a fluid filled thin elastic tube, Int J Eng Sci **37**(5) 527-540 (Apr 1999), 9A290

Ringing loads on a slender vertical cylinder of general cross-section, J Eng Math **35**(1-2) 199-217 (Feb 1999), 9A291

T-matrix perturbation formalism for scattering from a rough fluid-elastic interface, J Sound Vib **221**(5) 751-783 (Apr 1999), 9A304

Response prediction of a TLP in cyclonic storm conditions, Int J Offshore Polar Eng **8**(1) 58-65 (Mar 1998), 10A220

Axial dispersion induced by vibrations of a flexible tube, Int J Eng Sci **37**(7) 863-881 (May 1999), 10A307

Hydroelastic behavior of floating artificial islands in waves, Int J Offshore Polar Eng **9**(1) 39-47 (Mar 1999), 10A308

Propagation of small perturbations in two simple aeroelastic systems, J Sound Vib **222**(1) 152-162 (Apr 1999), 10A309

Vortex-excited vibration of a vertical circular cylinder in waves, Int J Offshore Polar Eng **8**(1) 66-73 (Mar 1998), 10A310

Convective and absolute instability of fluid flow over viscoelastic compliant layers, J Sound Vib **223**(3) 379-398 (Jun 1999), 11A290

Motion of a rigid body impelled by sea-wave impact, Appl Ocean Res **21**(3) 113-125 (Jun 1999), 11T291

Response of a floating annulus to water waves, Marine Struct **12**(1) 41-66 (Jan 1999), 11A292

Wave propagation at liquid-micropolar elastic solid interface, J Sound Vib **222**(5) 858-869 (May 1999), 11A293

Third-order BEM for exterior acoustics with applications to scattering by rigid and elastic shells, J Sound Vib **222**(5) 699-722 (May 1999), 11A325

Multibody systems and fluid-structure interactions with application to floating structures, Multibody Syst Dyn **3**(1) 65-83 (Feb 1999), 11A958

Analysis of low frequency acoustic response in a damped rectangular enclosure, J Sound Vib **223**(4) 543-566 (Jun 1999), 12A255

Fluid-structure interaction analysis of liquid-filled pipes, J Sound Vib **224**(1) 69-99 (Jul 1999), 12A256

Computation of transient acoustic scattering from submerged elastic sphere in time domain (Chinese), J Shanghai Jiaotong Univ **33**(3) 354-356 (Mar 1999), 12A290

Wave forces on submerged semi-circular breakwater and similar structures, China Ocean Eng **13**(1) 63-72 (1999), 12A1055

Wave loads on rubble mound breakwater crown walls, Coastal Eng **37**(2) 149-174 (Jul 1999), 12A1061

166H. Flexible tanks and containers

Symposium on fluid-structure interactions, aeroelasticity, flow-induced vibration and noise, held at Dallas, TX, November, 16-21, 1997, J Fluids Struct **12**(3) 387-388 (Apr 1998), 1T282

Forced response of vertical liquid-solid coupling system (Chinese), J Vib Eng **11**(2) 158-164 (Jun 1998), 1T287

Interaction of thin shells of revolution with viscous fluid under the effect of dynamic loads, Prikl Mekh (Appl Mech) **34**(3) 69-85 (1998), 1A288

Mathematical modeling of normal pharyngeal bolus transport: A preliminary study, J Rehab Res Dev **35**(3) 327-334 (Jul 1998), 1A289

Natural frequencies and mode shapes of two coaxial cylindrical shells coupled with bounded fluid, J Sound Vib **215**(1) 105-124 (Aug 1998), 2A340

Vibration analysis of command cabin envelope shell (Chinese), J Huazhong Univ Sci Tech **26**(5) 51-53 (May 1998), 2A341

Large-amplitude sloshing in an oil tanker with baffle-plate and drilled holes, Int J Comput Fluid Dyn **10**(1) 45-60 (1998), 2T354

Simulation of nonlinear dynamics of liquid filled fuel tanker shell structure subjected to rollover collision with validation, J Mech Des **120**(4) 573-580 (Dec 1998), 3A270

Free vibration of a circular cylindrical shell filled with bounded compressible fluid, J Sound Vib **217**(2) 197-221 (Oct 1998), 4A262

Wave propagation in fluids contained in finite-length anisotropic viscoelastic pipes, J Acoust Soc Am **104**(6) 3227-3235 (Dec 1998), 5A246

Numerical simulation of sloshing waves in a 3D tank based on a FEM, Appl Ocean Res **20**(6) 337-355 (Dec 1998), 6T267

Vibration power flow in a fluid-filled cylindrical shell, J Sound Vib **218**(4) 587-598 (Dec 1998), 6A268

Natural frequencies of fluid-filled transversely isotropic cylindrical shells, Int J Mech Sci **41**(6) 677-684 (Jun 1999), 7A158

Dynamic structure-fluid interaction response of a composite cylindrical shell submerged in water, China Ocean Eng **12**(3) 297-307 (1998), 7T252

Iteration method for computation of flexible fender piles, China Ocean Eng **12**(4) 435-442 (1998), 8T264

Repulsion phenomena in the phase-velocity dispersion curves of circumferential waves on elastic cylindrical shells, J Acoust Soc Am **105**(3) 1695-1701 (Mar 1999), 8A265

Vibro-acoustic behavior of submerged cylindrical shells: Analytical formulation and numerical model, J Fluids Struct **12**(8) 959-1003 (Nov 1998), 8T266

Pre-resonant and resonant elastic vibrations of spiral tubes interacting with internal mobile liquid clots (Russian), Prikl Mekh (Appl Mech) **35**(1) 85-91 (1999), 10A311

Space-harmonic analysis of input power flow in a periodically stiffened shell filled with fluid, J Sound Vib **222**(4) 531-546 (May 1999), 10A312

Modeling of tuned liquid damper with submerged nets, J Pressure Vessel Tech **121**(3) 334-343 (Aug 1999), 11A226

Seismic analysis of a liquid storage tank with a baffle, J Sound Vib **223**(1) 141-155 (May 1999), 11A294

Flow limitation in uniform thick-walled collapsible tubes, J Fluids Struct **13**(3) 399-418 (Apr 1999), 12T1160

166I. Pipes with flowing fluids

Bending vibration analysis of a liquid-filled pipe under vertical seismic excitation (Chinese), J Vib Eng **11**(2) 165-169 (Jun 1998), 1A290

Optimal design of pipes conveying fluid, J Fluids Struct **12**(3) 353-365 (Apr 1998), 1T291

Modeling of pipeline integrity taking into account the fluid-structure interaction, Int J Numer Methods Fluids **28**(2) 337-355 (Aug 1998), 1A1083

Dressed solitary waves in fluid-filled elastic tubes, Int J Non-Linear Mech **34**(1) 185-196 (Jan 1999), 4A263

Dynamics of branched pipeline systems conveying internal unsteady flow, J Vib Acoust **121**(1) 114-122 (Jan 1999), 4A264

Nonlinear wave modulation in a prestressed fluid field thin elastic tube, Int J Non-Linear Mech **34**(1) 123-138 (Jan 1999), 4A265

Hydrodynamic modes in pipes with superimposed uniform mean flow and viscothermal effects, J Sound Vib **218**(4) 735-740 (Dec 1998), 6T269

Integral representation formulation of some 1D problems, J Sound Vib **218**(5) 845-860 (Dec 1998), 6A270

Fluid-Structure Interactions: Slender Structures and Axial Flow, Volume 1 (Academic Press, San Diego CA, 1998) 7R9

Frequency dependence of pipe elbow shaking forces generated by internal acoustic fields, J Sound Vib **220**(1) 67-82 (Feb 1999), 7A253

Comparison of theory and experiment of aeroacoustic loads and deflections, J Fluids Struct **13**(1) 3-35 (Jan 1999), 8A267

Strouhal numbers of flow-excited acoustic resonance of closed side branches, J Fluids Struct **13**(1) 127-142 (Jan 1999), 8A268

Active nozzle control and integrated design optimization of a beam subject to fluid-dynamic forces, J Fluids Struct **13**(2) 269-287 (Feb 1999), 9T292

Nonlinear lateral vibration of a vertical fluid-conveying pipe with end mass, JSME Int J Ser C **41**(3) 652-661 (Sep 1998), 9A293

Vibration and stability analysis of cantilevered two-pipe systems conveying different fluids, J Fluids Struct **13**(2) 251-268 (Feb 1999), 9T294

Laser doppler measurement of local flow field in collapsible tube during self-excited oscillation, JSME Int J Ser C **40**(4) 665-670 (Dec 1997), 9A306

Analysis of the dispersion characteristics of fluid-flowing pipe (Chinese), J Huazhong Univ Sci Tech **27**(2) 31-33 (Feb 1999), 10A313

Perturbation approach to analyze the vibration of structures conveying fluid, J Sound Vib **222**(4) 621-634 (May 1999), 10A314

Theoretical and experimental investigations on the spinning BTA deep-hole drill shafts containing fluids and subject to axial forces, Int J Mech Sci **41**(11) 1301-1322 (Nov 1999), 12A156

Fluid-structure interaction analysis of liquid-filled pipes, J Sound Vib **224**(1) 69-99 (Jul 1999), 12A256

Aspirating pipes do not flutter at infinitesimally small flow, J Fluids Struct **13**(3) 419-426 (Apr 1999), 12T259

166J. Turbomachine blades excitation

Linearized approach of fluid-structure vibrations in turbomachinery (French), Rev Francaise Mec **0**(2) 81-88 (Jun 1998), 1A292

Experimental investigation and theoretical prediction of flutter behavior of a plane cascade in low speed flow, J Eng Gas Turbines Power **120**(4) 766-774 (Oct 1998), 2A342

Flutter computation of turbomachinery cascades using a parallel unsteady Navier-Stokes code, AIAA J **37**(3) 320-327 (Mar 1999), 8A277

Unsteady numerical analysis of stall flutter in turbine cascade, Memoirs Fac Eng Kyushu Univ **58**(4) 199-216 (Dec 1998), 9A295

166K. Ocean structures

Offshore technology in focus, Appl Ocean Res **20**(1-2) 3-118 (Feb-Apr 1998), 1A293

Industrial applications of fluid-structure interaction and flow-induced noise research, J Fluids Struct **12**(4) 395-507 (Mau 1998), 1A298

System reliability analysis of offshore structures and component safety rank assessment, China Ocean Eng **12**(2) 173-181 (1998), 2T343

Hydrodynamic force on a rigid body during impact with liquid, J Fluids Struct **12**(5) 549-559 (Jul 1998), 2A1063

Numerical simulation of wave forces of seabed pipelines, China Ocean Eng **12**(2) 203-211 (1998), 2T1064

Low-frequency responses of nonlinearly moored vessels in random waves: Development of a two-scale perturbation method, Appl Ocean Res **20**(4) 225-236 (Aug 1998), 2A1215

Interactions of cnoidal waves with cylinder arrays, Ocean Eng **26**(1) 1-20 (Jan 1999), 3T268

Physical modeling and similitude of marine structures, Ocean Eng **26**(2) 111-123 (Feb 1999), 3T271

Stability analysis of the heave motion of marine cable-body systems, Ocean Eng **26**(6) 531-546 (Jun 1999), 4A266

Surface ship shock modeling and simulation: 2D analysis, Shock Vib **5**(2) 129-137 (1998), 5A211

Dynamic pressures on inclined cylinders due to freak waves, Ocean Eng **26**(9) 841-863 (Oct 1999), 7T248

Decision support system for floating platform design, Ocean Eng **26**(9) 865-889 (Oct 1999), 7T254

Nonlinear coupled motions for a given two-point tension mooring system, China Ocean Eng **12**(3) 253-264 (1998), 7T255

Mechanics of nonlinear short-wave generation by a moored near-surface buoy, J Fluid Mech **381** 305-335 (Feb 1999), 8A234

Water wave scattering by a submerged thick wall with a gap, Appl Ocean Res **21**(2) 69-80 (Apr 1999), 8T246

Calculation of hydro-dynamic stability of the soil inside bucket in the process of bucket foundation penetration, China Ocean Eng **12**(4) 427-434 (1998), 8T269

Dynamic behavior of axially pre-loaded tubular steel members of offshore structures subjected to impact damage, Ocean Eng **26**(10) 963-978 (Oct 1999), 8T270

Estimation method of hydrodynamic forces acting on a very large floating structure - Part 2, Appl Ocean Res **21**(2) 53-67 (Apr 1999), 8A271

Linear programming model for seabed oil-gas pipe network, China Ocean Eng **12**(4) 477-482 (1998), 8T272

Prediction model for occurrence of impact wave force, Ocean Eng **26**(10) 949-961 (Oct 1999), 8A273

Slow motion dynamics of turret mooring and its approximation as single point mooring, Appl Ocean Res **21**(1) 27-39 (Feb 1999), 8T274

Time- and frequency-domain analysis of ice-induced displacement responses of offshore fixed platforms, China Ocean Eng **12**(4) 365-373 (1998), 8T275

Water impact of general 2D sections, Appl Ocean Res **21**(1) 1-15 (Feb 1999), 8A276

Ringing of ISSC TLP due to laboratory storm seas, Int J Offshore Polar Eng **8**(2) 81-89 (Jun 1998), 10A221

Assessment of the wave-iceberg load combination factor, Int J Offshore Polar Eng **8**(1) 1-8 (Mar 1998), 10A315

Characteristics of wave forces on vertical cylinder due to two-crossing waves, Int J Offshore Polar Eng **8**(1) 74-79 (Mar 1998), 10A316

Investigation of extreme water behavior around a model TLP, Int J Offshore Polar Eng **8**(1) 51-57 (Mar 1998), 10A317

Universal linear system model for storm sea loads on column, Int J Offshore Polar Eng **9**(1) 48-54 (Mar 1999), 10A318

Metamodel-based towed system simulation, Ocean Eng **26**(11) 1183-1247 (Nov 1999), 12T257

Research on stability of open bottom storage platform, J Hydrodyn **11**(2) 14-19 (1999), 12T258

Wave forces on submerged semi-circular breakwater and similar structures, China Ocean Eng **13**(1) 63-72 (1999), 12A1055

166N. Flutter and flutter control

Aeroelastic response of a rigid wing supported by nonlinear springs, J Aircraft **35**(4) 616-622 (Jul-Aug 1998), 1A294

Effect of aspect ratio and ply orientation on aeroelastic response of composite plates, J Aircraft **35**(4) 657-659 (Jul-Aug 1998), 1T295

Role of coupled derivatives on flutter instabilities, Wind Struct **1**(2) 175-181 (Jun 1998), 1A296

Sensitivity analysis for transonic unsteady aeroelastic constraints, J Aircraft **35**(4) 574-581 (Jul-Aug 1998), 1A297

Experimental investigation and theoretical prediction of flutter behavior of a plane cascade in low speed flow, J Eng Gas Turbines Power **120**(4) 766-774 (Oct 1998), 2A342

Elastic plate in gas flow: Reducing from anisotropy to orthotropy, J Franklin Inst **335B**(7) 1231-1247 (Sep 1998), 2A344

Finite element supersonic flutter analysis of skewed and cracked composite panels, Comput Struct **69**(2) 265-270 (Oct 1998), 2A345

Supersonic flutter of composite skin panels of repeated-sublaminate layup, Composite Struct **41**(2) 121-135 (Feb 1998), 2A676

Aeroelastic stability investigation of a composite hingeless rotor in hover, J Aircraft **35**(5) 791-797 (Sep-Oct 1998), 4A267

Significance of wash-out on the flutter characteristics of composite wings, J Aircraft **35**(5) 823-825 (Sep-Oct 1998), 4T268

Unsteady aerodynamic forces and aeroelastic response for external store of an aircraft, J Aircraft **35**(5) 678-687 (Sep-Oct 1998), 4A269

Coupled and uncoupled bending-torsion responses of twin-tail buffet, J Fluids Struct **12**(6) 677-701 (Aug 1998), 4T270

Evolution of deterministic non-periodic behavior of an airfoil, Int J Non-Linear Mech **34**(3) 499-514 (May 1999), 5A247

Analytical and experimental study on limit cycle flutter for sweepback wing-store, J Vib Eng **11**(4) 389-394 (Dec 1998), 6A271
Flutter control of wing boxes using piezoelectric actuators, J Aircraft **35**(6) 949-957 (Nov-Dec 1998), 6A272
Coupled-mode buffeting and flutter analysis of bridges, Comput Struct **70**(2) 219-228 (Jan 1999), 7A256
Reduced-order models for integrated aeroservoelastic optimization, J Aircraft **36**(1) 146-155 (Jan-Feb 1999), 7A257
Stability analysis of wind-induced torsional motion of slender bridges, Struct Safety **20**(4) 379-389 (1998), 7A258
Use of the P-TFE method for panel flutter optimization, Comput Struct **70**(1) 109-117 (Jan 1999), 7A259
Deteriorated geometrical stiffness for higher order FEs with application to panel flutter, Nonlinear Dyn **18**(1) 89-103 (Jan 1999), 8A38
Flutter computation of turbomachinery cascades using a parallel unsteady Navier-Stokes code, AIAA J **37**(3) 320-327 (Mar 1999), 8A277
Flutter of an airfoil with a cubic restoring force, J Fluids Struct **13**(1) 75-101 (Jan 1999), 8A278
Limit cycle oscillations of a cantilevered wing in low subsonic flow, AIAA J **37**(3) 364-371 (Mar 1999), 8A279
Unsteady numerical analysis of stall flutter in turbine cascade, Memoirs Fac Eng Kyushu Univ **58**(4) 199-216 (Dec 1998), 9A295
Graphical technique for the flutter analysis of flexible bridge, Wind Struct **2**(1) 41-49 (Mar 1999), 9A296
Hopf-bifurcation analysis of airfoil flutter at transonic speeds, J Aircraft **36**(2) 421-429 (Mar-Apr 1999), 9A297
Model for development of backlash in aircraft control circuit mechanical links, J Aircraft **36**(2) 480-482 (Mar-Apr 1999), 9T298
Self-excited vibratory system for a flutter mechanism, JSME Int J Ser C **41**(3) 621-629 (Sep 1998), 9A299
Flow control for fluid-structure configurations (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 115-118 (Jan 1999), 9A300
Active aerofoil stabilization of cable-supported bridge decks, Proc Inst Civil Eng Struct Build **134**(1) 67-76 (Feb 1999), 9A1002
Behavior of airfoil with control surface freeplay for nonzero angles of attack, AIAA J **37**(5) 651-653 (May 1999), 11T295
Coupled thermal model for nonlinear panel flutter, AIAA J **37**(5) 642-650 (May 1999), 11A296
Aspirating pipes do not flutter at infinitesimally small flow, J Fluids Struct **13**(3) 419-426 (Apr 1999), 12T259
Comparative study of coupled-mode flutter-analysis methods for fan configurations, J Propulsion Power **15**(3) 447-453 (May-Jun 1999), 12A260
Experimental analysis of aerodynamic stability of stress-ribbon footbridges, Wind Struct **2**(2) 95-104 (Jun 1999), 12A261
Investigation of semi-active flutter control of an aircraft control surface using ER fluid, J Sound Vib **223**(4) 659-665 (Jun 1999), 12T262
Supersonic flutter analysis of stiffened laminated plates subject to thermal load, J Sound Vib **224**(1) 49-67 (Jul 1999), 12A263
Wind tunnel test research on aerodynamic means of the ZG Bridge, Wind Struct **2**(2) 119-125 (Jun 1999), 12A264
Study on the active control of flutter of long-span cable-stayed bridge (Chinese), J Vib Eng **12**(2) 286-291 (Jun 1999), 12T917

166R. Buffeting, gust, and turbulence effects

Effect of turbulence of fluidelastic instability in tube bundles: A nonlinear analysis, J Fluids Struct **12**(5) 561-590 (Jul 1998), 2T346
Gust loading on streamlined bridge decks, J Fluids Struct **12**(5) 511-536 (Jul 1998), 2A347
Analysis of atmospheric wind and pressures on a low-rise building, J Fluids Struct **12**(5) 537-547 (Jul 1998), 2A349
Coupled and uncoupled bending-torsion responses of twin-tail buffet, J Fluids Struct **12**(6) 677-701 (Aug 1998), 4T270
Fin buffet pressure evaluation based on measured flowfield velocities, J Aircraft **35**(5) 806-815 (Sep-Oct 1998), 4A271
Validation of wind loading codes by experiments, Heron **43**(2) 85-98 (1998), 4A272
Wind Effects on Building and Structures (Balkema, Rotterdam, Netherlands, 1998) 6N11
Analytical and experimental studies on the gust response of a 52 m tall steel lattice tower under wind loading, Comput Struct **70**(2) 149-160 (Jan 1999), 7A260
Suppression of bending-torsion flutter through displacement-dependent dry friction damping, AIAA J **37**(1) 79-83 (Jan 1999), 7A261
Upper bound on random buffeting forces caused by two-phase flows across tubes, J Fluids Struct **12**(8) 1005-1023 (Nov 1998), 8A280
Bridge Aerodynamics (Balkema, Rotterdam, Netherlands, 1998) 11N13
Single finite states modeling of aerodynamic forces related to structural motions and gusts, AIAA J **37**(5) 604-612 (May 1999), 11A297

166T. Aeroelasticity (incl aerothermoelasticity)

Industrial applications of fluid-structure interaction and flow-induced noise research, J Fluids Struct **12**(4) 395-507 (Mau 1998), 1A298
Aeroelastic tailoring considering uncertainties in material properties, Struct Optim **15**(3-4) 157-162 (Jun 1998), 1A940
System reliability analysis of offshore structures and component safety rank assessment, China Ocean Eng **12**(2) 173-181 (1998), 2T343
Aeroelastic analysis of advanced geometry tiltrotor aircraft, J Am Helicopter Soc **43**(3) 212-221 (Jul 1998), 2A348
Analysis of atmospheric wind and pressures on a low-rise building, J Fluids Struct **12**(5) 537-547 (Jul 1998), 2A349
Elastic deformation of a plate in a rigid screen and acoustic waveguide under the effect of weak-shock waves (Russian), Prikl Mekh (Appl Mech) **34**(5) 104-110 (1998), 2A350
High load conditions measured on a UH-60A in maneuvering flight, J Am Helicopter Soc **43**(3) 202-211 (Jul 1998), 2A351
Use of analytical flow sensitivities in static aeroelasticity, AIAA J **36**(8) 1537-1540 (Aug 1998), 2T352
Selected Works on Biomechanics and Aeroelasticity (World Sci Pub, River Edge, NJ, 1997) 3R31
Unsteady Aerodynamics and Aeroelasticity of Turbgomachines (Kluwer, Netherlands, 1998) 4N29
Control-surface reversal in the transonic regime, J Aircraft **35**(5) 688-694 (Sep-Oct 1998), 4A273
Integrated solution for computational static aeroelasticity of rockets, J Spacecraft Rockets **35**(5) 612-618 (Sep-Oct 1998), 4A274
Two-dimensional transonic aeroelastic analysis using thin-layer Navier-Stokes methods, J Fluids Struct **12**(6) 655-676 (Aug 1998), 4T275
Aeroelastic analysis of slender spinning vehicle (Chinese), J Beijing IT **18**(4) 431-435 (Aug 1998), 5A248
Applied active control for a nonlinear aeroelastic structure, J Guidance Control Dyn **21**(6) 838-845 (Nov-Dec 1998), 5A380
Output feedback variable structure adaptive control of an aeroelastic system, J Guidance Control Dyn **21**(6) 830-837 (Nov-Dec 1998), 5A384
Axisymmetrical problem of impact of a thin elastic spherical shell against the surface of compressible liquid allowing for the separation (Russian), Prikl Mekh (Appl Mech) **34**(9) 19-27 (1998), 6A233
Limit cycle behavior of an airfoil with a control surface, J Fluids Struct **12**(7) 839-858 (Oct 1998), 6A273
Computational fluid dynamics-computational structural dynamics interaction methodology for aircraft wings, AIAA J **36**(12) 2179-2186 (Dec 1998), 6A274
Aeroelastic loads and sensitivity analysis for structural loads optimization, J Aircraft **36**(1) 156-166 (Jan-Feb 1999), 7A262
Integrated aeroservoelastic optimization: Status and direction, J Aircraft **36**(1) 122-145 (Jan-Feb 1999), 7A263
Integrated servostructural optimization in the design of aerospace systems, J Aircraft **36**(1) 167-175 (Jan-Feb 1999), 7A264
Preliminary static aeroelastic analysis of reusable launch vehicle stability and control derivatives, J Spacecraft Rockets **36**(1) 67-74 (Jan-Feb 1999), 7A265
Renaissance of aeroelasticity and its future, J Aircraft **36**(1) 105-121 (Jan-Feb 1999), 7A266
Method for identification of nonlinear multi-dof systems, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 287-298 (1998), 7A333
Active nozzle control and integrated design optimization of a beam subject to fluid-dynamic forces, J Fluids Struct **13**(2) 269-287 (Feb 1999), 9T292
Flow control for fluid-structure configurations (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 115-118 (Jan 1999), 9A300
Numerical investigations of the aerodynamics and the aeroelastic stability of oscillating annular wings, J Fluids Struct **13**(2) 209-224 (Feb 1999), 9A301
Active aerofoil stabilization of cable-supported bridge decks, Proc Inst Civil Eng Struct Build **134**(1) 67-76 (Feb 1999), 9A1002
Aeroelastic response of a coupled rotor-fuselage system in hovering and forward flight, Arch Appl Mech **69**(1) 68-82 (Feb 1999), 9A1293
Structural Dynamics in Aeronautical Engineering (AIAA, Reston, VA, 1999) 10R6
Bridge Aerodynamics (Balkema, Rotterdam, Netherlands, 1998) 11N13
Steady-state aeroelasticity of fluid flow over a laminated composite plate, Mech Res Commun **26**(2) 177-183 (Mar-Apr 1999), 11A298
Approach of galloping vibrations using a time delayed force modeling and experimental validation (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 679-684 (Jul 1999), 12A265

166Y. Computational techniques

Transient fluid-structure interaction in naval applications using the retarded potential method, Eng Anal Boundary Elements **21**(3) 245-251 (Apr 1998), 1A299
Modeling of pipeline integrity taking into account the fluid-structure interaction, Int J Numer Methods Fluids **28**(2) 337-355 (Aug 1998), 1A1083
Numerical study of the flow pattern and the in-line response of a flexible cylinder in an oscillating stream, J Fluids Struct **12**(3) 225-258 (Apr 1998), 1A1104
Higher-order subiteration-free staggered algorithm for nonlinear transient aeroelastic problems, AIAA J **36**(9) 1754-1757 (Sep 1998), 2T353
Large-amplitude sloshing in an oil tanker with baffle-plate and drilled holes, Int J Comput Fluid Dyn **10**(1) 45-60 (1998), 2T354
Analysis of fluid-structure interaction by means of dynamic unstructured meshes, J Fluids Eng **120**(4) 792-798 (Dec 1998), 3A261
Fully nonlinear interactions of waves with a 3D body in uniform currents, Appl Ocean Res **20**(5) 309-321 (Oct 1998), 4A261
Accuracy and coupling issues of aeroelastic Navier-Stokes solutions on deforming meshes, J Aircraft **35**(5) 798-805 (Sep-Oct 1998), 4A276
Analysis of fluid-structure interactions using a time-marching technique, J Fluids Struct **12**(6) 631-654 (Aug 1998), 4A277
Numerical analysis of interference galloping of two identical circular cylinders, Wind Struct **1**(3) 243-253 (Sep 1998), 5A242
Application of a two-fluid finite volume method to ship slamming, J Offshore Mech Arctic Eng **121**(1) 47-52 (Feb 1999), 5A249
Fluid-structure interaction problems, FE and BE approaches: A bibliography 1995-1998, Finite Elements Anal Des **31**(3) 231-240 (Jan 1999), 6A35
Integral representation formulation of some 1D problems, J Sound Vib **218**(5) 845-860 (Dec 1998), 6A270
Computational fluid dynamics-computational structural dynamics interaction methodology for aircraft wings, AIAA J **36**(12) 2179-2186 (Dec 1998), 6A274
Finite element computation of 3D elastoacoustic vibrations, J Sound Vib **219**(2) 279-306 (Jan 1999), 6A275
Improved state-space method for coupled fluid-structure interaction analysis, J Acoust Soc Am **105**(1) 206-210 (Jan 1999), 6A276
Monolithical fluid-structure interaction algorithm applied to the piston problem, Comput Methods Appl Mech Eng **167**(3-4) 369-391 (Dec 1998), 6A277
Numerical study of nonlinear dynamics of 2D flexible elastic compound in liquid (Russian), Prikl Mekh (Appl Mech) **34**(9) 98-103 (1998), 6A278
Dynamic analysis of an annular cavity: Criteria for the selection of the modal basis, J Sound Vib **219**(4) 639-667 (Jan 1999), 7A267
Inverse method for the identification of a distributed random excitation acting on a vibrating structure - Part II: Flow-induced vibration application, Mech Syst Signal Processing **13**(1) 67-81 (Jan 1999), 7T332
Iteration method for computation of flexible fender piles, China Ocean Eng **12**(4) 435-442 (1998), 8T264
Flutter computation of turbomachinery cascades using a parallel unsteady Navier-Stokes code, AIAA J **37**(3) 320-327 (Mar 1999), 8A277
Numerical method for vibro-acoustic problems with incompatible FE meshes using B-spline functions, J Acoust Soc Am **105**(3) 1682-1694 (Mar 1999), 8A281
Simulations of fluid-structure interaction using patched-overset grids, J Fluids Struct **13**(2) 191-207 (Feb 1999), 9A281
Method of solving nonstationary 3D problems of hydroelasticity with allowance for fluid failure, Int J Impact Eng **22**(4) 469-483 (Apr 1999), 9A302
Near-field fluid-structure interaction using Lagrangian fluid FEs, Comput Struct **71**(2) 123-141 (Apr 1999), 9A303
T-matrix perturbation formalism for scattering from a rough fluid-elastic interface, J Sound Vib **221**(5) 751-783 (Apr 1999), 9A304
Viscous effects in wave-body interaction, Int J Offshore Polar Eng **8**(1) 39-45 (Mar 1998), 10A319
Waves due to a line source in front of a vertical wall with a gap, Arch Mech **50**(5) 917-926 (1998), 10A320
Compact matrix formulation using the impedance and mobility approach for the analysis of structural-acoustic systems, J Sound Vib **223**(1) 97-113 (May 1999), 11A299
Finite element analysis of fluid-solid interaction in the metering nip of a metering size press, Comput Methods Appl Mech Eng **174**(1-2) 235-245 (May 1999), 11A300
Numerical modeling of the impact on water of a flexible structure by explicit FEM: Comparisons with Radioss numerical results and experiments, Aerospace Sci Tech **3**(2) 83-91 (Feb 1999), 12A203
Fluid-Structure Interaction in Acoustics, Flow Turbulence Combust **61**(1-4) 1-300 (1998), 12A243
Metamodel-based towed system simulation, Ocean Eng **26**(11) 1183-1247 (Nov 1999), 12T257

166Z. Experimental techniques

Wind resistant properties of Tiger Gate suspension bridge, Wind Struct **1**(1) 67-75 (Mar 1998), 1A179
Experimental investigation and theoretical prediction of flutter behavior of a plane cascade in low speed flow, J Eng Gas Turbines Power **120**(4) 766-774 (Oct 1998), 2A342
Hydrodynamic study of the Olmsted wicket gate using a 1:25-scale model, Mech Syst Signal Processing **12**(5) 661-677 (Sep 1998), 4A258
Comparison of aeroelastic excitation mechanisms, J Aircraft **35**(5) 830-832 (Sep-Oct 1998), 4T278
Experimental demonstration of the pseudo-Rayleigh (A_0) wave, J Acoust Soc Am **104**(5) 2727-2732 (Nov 1998), 4A341
Instrument for field measurement of wave impact pressures and seawater aeration, Coastal Eng **35**(1-2) 103-122 (Oct 1998), 5A935
Frequency dependence of pipe elbow shaking forces generated by internal acoustic fields, J Sound Vib **220**(1) 67-82 (Feb 1999), 7A253
Comparison of theory and experiment of aeroacoustic loads and deflections, J Fluids Struct **13**(1) 3-35 (Jan 1999), 8A267
Effect of flow pulsations on Coriolis mass flow meters, J Fluids Struct **12**(8) 1025-1039 (Nov 1998), 8T1277
Evaluation of accelerometer mechanical filters on submerged cylinders near an underwater explosion, Shock Vib **5**(4) 255-265 (1998), 9A305
Laser doppler measurement of local flow field in collapsible tube during self-excited oscillation, JSME Int J Ser C **40**(4) 665-670 (Dec 1997), 9A306
Measurement of fluidelastic effects at low reduced velocities using piezoelectric actuators, J Pressure Vessel Tech **121**(2) 232-238 (May 1999), 9A307
Fluid-Structure Interaction in Acoustics, Flow Turbulence Combust **61**(1-4) 1-300 (1998), 12A243
Experimental investigation of the finite amplitude wave, Arch Acoust **24**(1) 75-84 (1999), 12A266
Experimental verification of the opposite effect of fluid loading on the velocity of dilatational waves in thin plates and rods, J Acoust Soc Am **105**(6) 3026-3034 (Jun 1999), 12A267

168. ASTRONAUTICS (CELESTIAL AND ORBITAL MECHANICS)

Numerical simulation of viscous flow: Buckling of planar jets, Int J Numer Methods Fluids **29**(6) 705-718 (Mar 1999), 8A1000

168A. General theory

Existence and orbital stability of periodic solutions for small-parameter nonlinear differential systems, Nonlinear Anal **33**(7) 773-784 (Sep 1998), 1T300
Bounds on the solution to Kepler's equation - II: Universal and optimal starting points, Celest Mech Dyn Astron **70**(2) 131-146 (1998), 4A279
Kepler problem S-sphere and the Kepler manifold, Meccanica **33**(6) 541-551 (Dec 1998), 6A279

168D. Celestial mechanics

Relative chaos in gravitating systems with massive center, Physica D **122**(1-4) 241-253 (Nov 1998), 3A272
Relative equilibrium in the three-body problem with a rigid body, Celest Mech Dyn Astron **69**(3) 293-315 (1997), 3A273
Instability and diffusion in the elliptic restricted three-body problem, Celest Mech Dyn Astron **70**(1) 23-39 (1998), 4A280
Restricted Hill four-body problem with applications to the Earth-Moon-Sun system, Celest Mech Dyn Astron **70**(2) 75-98 (1998), 4A281
Analytical results in dynamics of spheroidal galaxies, Celest Mech Dyn Astron **70**(4) 255-270 (1998), 5A250

Second Italian meeting on Celestial Mechanics, Planet Space Sci **46**(11-12) 1425-1709 (Nov-Dec 1998), 6A280
Tetrahedral 4-body problem with rotation, Celest Mech Dyn Astron **71**(1) 15-33 (1998), 7A268
Continuum of relative equilibria in the five-body problem, Physica D **127**(3-4) 141-145 (Mar 1999), 9A308
Study of a particular model of encounter between a comet and a planet, Celest Mech Dyn Astron **71**(3) 191-201 (1998), 10A321
Analytic model of three-body mean motion resonances, Celest Mech Dyn Astron **71**(4) 243-271 (1998), 11A301

168G. Orbital mechanics

ROSETTA mission: Satellite orbits round a cometary nucleus, Planet Space Sci **46**(6-7) 649-671 (Jun-Jul 1998), 1A301
Orbit determination and photogrammetry using Mars-94 tracking and images, J Guidance Control Dyn **21**(4) 535-541 (Jul-Aug 1998), 1T414
Space Vehicle Dynamics and Control (AIAA, MD, 1998) 2R5
Orbit raising with low-thrust tangential acceleration in presence of Earth shadow, J Spacecraft Rockets **35**(4) 516-525 (Jul-Aug 1998), 2A355
Precision spacecraft attitude estimators using an optical payload pointing system, J Spacecraft Rockets **35**(4) 480-486 (Jul-Aug 1998), 2A356
Direct approach for computing, near-optimal low-thrust earth-orbit transfers, J Spacecraft Rockets **35**(4) 509-515 (Jul-Aug 1998), 2A357
Spaceflight Mechanics 1998, Volume 99, Parts I and II (Univelt, San Diego, 1998) 3N12
Long time stability for the main problem of artificial satellites, Celest Mech Dyn Astron **69**(3) 317-330 (1997), 3A274
Strategies for 3D deployment of thethered satellites, Mech Res Commun **25**(5) 543-550 (Sep-Oct 1998), 3T275
Dynamics, stability, and control of displaced non-Keplerian orbits, J Guidance Control Dyn **21**(5) 799-805 (Sep-Oct 1998), 3T276
Loci of satellite positions: A constellation design approach, Celest Mech Dyn Astron **70**(1) 59-73 (1998), 4A282
Nonlinear stability of the Lagrangian libration points in the Chermnykh problem, Celest Mech Dyn Astron **70**(1) 41-58 (1998), 4A283
Optimization of reentry vehicle's parameters (Chinese), J Beijing IT **18**(4) 436-440 (Aug 1998), 5A251
Oscillatory orbits in the planar three-body problem with equal masses, Celest Mech Dyn Astron **70**(3) 167-180 (1998), 5A252
Coplanar elliptical orbit transfer using aerocruise, J Guidance Control Dyn **21**(6) 971-974 (Nov-Dec 1998), 5T364
Simple guidance scheme for low-thrust orbit transfers, J Guidance Control Dyn **21**(6) 1015-1017 (Nov-Dec 1998), 5T376
Chebyshev collocation methods for fast orbit determination, Appl Math Comput **99**(2-3) 195-207 (Mar 1999), 6A281
Asteroid mean elements: Higher order and iterative theories, Celest Mech Dyn Astron **71**(1) 55-78 (1998), 7A269
Bifurcations of periodic orbits, subharmonic solutions and invariant Tori of high-dimensional systems, Nonlinear Anal **36**(3) 319-329 (May 1999), 7T270
Dynamics of Earth-crossing asteroids: The protected toro orbits, Celest Mech Dyn Astron **71**(1) 35-53 (1998), 7A271
Ejection-collision orbits and invariant punctured tori in a restricted four-body problems, Celest Mech Dyn Astron **71**(1) 1-14 (1998), 7A272
Real-time optimal attitude estimation using horizon sensor and magnetometer data, J Spacecraft Rockets **35**(6) 778-784 (Nov-Dec 1998), 7A273
Optimal finite thrust orbit transfers with large numbers of burns, J Guidance Control Dyn **22**(1) 139-148 (Jan-Feb 1999), 7T370
Elements of Space Technology (Academic Press, San Diego CA, 1999) 8N9
Averaging on Earth-crossing orbits, Celest Mech Dyn Astron **71**(2) 109-136 (1998), 8A282
Platformless inertial navigation system based on a canonical gravitational gradiometer, J Appl Math Mech **62**(5) 819-822 (1998), 8A283
Symplectic mapping for satellites and space debris including nongravitational forces, Celest Mech Dyn Astron **71**(2) 79-94 (1998), 8A284
Autonomous orbit determination for two spacecraft from relative position measurements, J Guidance Control Dyn **22**(2) 305-312 (Mar-Apr 1999), 8T411
Electric propulsion for remote sensing from low orbits, J Guidance Control Dyn **22**(2) 313-321 (Mar-Apr 1999), 8A415
Spaceflight Dynamics 1998, Volume 100 Parts I and II (Univelt, San Diego, 1998) 9N15
Controlling the attitude maneuvers of flexible spacecraft by using time-optimal and fuel-efficient shaped inputs, J Sound Vib **221**(4) 545-565 (Apr 1999), 9A88
Stability and instability of an earth satellite with a cylindrical shield in the Newtonian central force field for accuracy, JSME Int J Ser C **40**(3) 406-415 (Sep 1997), 9A310
Chaotic scattering in the restricted three-body problem - II: Small mass parameters, Celest Mech Dyn Astron **71**(3) 167-189 (1998), 10A322
Periodic orbits in analytical planar galactic potentials, Celest Mech Dyn Astron **71**(3) 203-228 (1998), 10A323
Relative equilibria of a tethered gyrostat in a central Newtonian field, J Appl Math Mech **62**(6) 971-974 (1999), 10A324
Chaos in spacecraft attitude motion in Earth's magnetic field, Chaos **9**(2) 493-498 (Jun 1999), 11A302
Isolated periodic orbits and stability in separable potentials, Celest Mech Dyn Astron **71**(4) 289-300 (1998), 11A303
Minimum-time low-thrust rendezvous and transfer using epoch mean longitude formulation, J Guidance Control Dyn **22**(3) 421-432 (May-Jun 1999), 11T381
Two-body optimization for deflecting earth-crossing asteroids, J Guidance Control Dyn **22**(3) 415-420 (May-Jun 1999), 11T387

168K. Stability and control

ROSETTA mission: Satellite orbits round a cometary nucleus, Planet Space Sci **46**(6-7) 649-671 (Jun-Jul 1998), 1A301
Stability of relative programmed motion of satellite-gyrostat, Mech Res Commun **25**(4) 371-379 (Jul-Aug 1998), 1A302
Interplanetary spacecraft controllers using thrusters, J Guidance Control Dyn **21**(4) 542-550 (Jul-Aug 1998), 1A412
Thermally induced attitude dynamics of a spacecraft with a flexible appendage, J Guidance Control Dyn **21**(4) 581-587 (Jul-Aug 1998), 1A416
Application of singular value decomposition method to digitally controlled large orbiting platforms, J Guidance Control Dyn **21**(4) 551-557 (Jul-Aug 1998), 1A419
Digitally redesigned pulse-width modulation spacecraft control, J Guidance Control Dyn **21**(4) 529-534 (Jul-Aug 1998), 1A425
Space Vehicle Dynamics and Control (AIAA, MD, 1998) 2R5
Direct approach for computing, near-optimal low-thrust earth-orbit transfers, J Spacecraft Rockets **35**(4) 509-515 (Jul-Aug 1998), 2A357
Low-thrust inclination control in presence of Earth shadow, J Spacecraft Rockets **35**(4) 526-532 (Jul-Aug 1998), 2A358
Spaceflight Mechanics 1998, Volume 99, Parts I and II (Univelt, San Diego, 1998) 3N12
Dynamics, stability, and control of displaced non-Keplerian orbits, J Guidance Control Dyn **21**(5) 799-805 (Sep-Oct 1998), 3T276
Time-optimal spin-up maneuvers for flexible spacecraft, J Guidance Control Dyn **21**(5) 806-808 (Sep-Oct 1998), 3T277
Adaptive asymptotic tracking of spacecraft attitude motion with inertia matrix identification, J Guidance Control Dyn **21**(5) 684-691 (Sep-Oct 1998), 3A402
Adaptive robust tracking for flexible spacecraft in presence of disturbances, J Optim Theory Appl **98**(3) 545-568 (Sep 1998), 3A403
Entry trajectory tracking law via feedback linearization, J Guidance Control Dyn **21**(5) 726-732 (Sep-Oct 1998), 3T404
Guidance algorithm design: A nonlinear inverse approach, J Guidance Control Dyn **21**(5) 742-746 (Sep-Oct 1998), 3T405
Recovery guidance satisfying input and state constraints: Rate saturating actuator example, J Guidance Control Dyn **21**(5) 733-741 (Sep-Oct 1998), 3T406
Torque shaping using trigonometric series expansion for slewing of flexible structures, J Guidance Control Dyn **21**(5) 698-703 (Sep-Oct 1998), 3A407
Control of flexible structures using GPS: Methods and experimental results, J Guidance Control Dyn **21**(5) 673-683 (Sep-Oct 1998), 3A409
Nonlinear dynamics and chaos control of a damped satellite with partially-filled liquid, J Sound Vib **217**(5) 807-825 (Nov 1998), 5A95
Attitude stability of DeBra-Delp satellites in circular orbit, J Guidance Control Dyn **21**(6) 965-970 (Nov-Dec 1998), 5T362
Design and evaluation of a 3D optimal ascent guidance algorithm, J Guidance Control Dyn **21**(6) 867-875 (Nov-Dec 1998), 5A365
Finite time stability approach to proportional navigation systems analysis, J Guidance Control Dyn **21**(6) 853-861 (Nov-Dec 1998), 5T366
Guidance strategy for solid propelled launchers, J Guidance Control Dyn **21**(6) 1006-1009 (Nov-Dec 1998), 5T368
Large-scale direct optimal control applied to a reentry problem, J Guidance Control Dyn **21**(6) 996-1000 (Nov-Dec 1998), 5A370
Simple guidance scheme for low-thrust orbit transfers, J Guidance Control Dyn **21**(6) 1015-1017 (Nov-Dec 1998), 5T376
Experimental evaluation of the torque-shaping method for slew maneuver of flexible space structures, J Guidance Control Dyn **21**(6) 817-822 (Nov-Dec 1998), 5A382
Passive control of displaced solar sail orbits, J Guidance Control Dyn **21**(6) 975-982 (Nov-Dec 1998), 5T385
New design method for pulse-width modulation control system via digital redesign, J Guidance Control Dyn **22**(1) 123-128 (Jan-Feb 1999), 7T357
Simple strategy for powered swingby, J Guidance Control Dyn **22**(1) 156-159 (Jan-Feb 1999), 7A373
Spinning stability analysis of spacecraft partially filled with liquid (Chinese), J Shanghai Jiaotong Univ **32**(12) 64-68 (Dec 1998), 8A285
Stability investigation of multibody spacecraft, Z Angew Math Mech **79**(3) 161-170 (1999), 8A286
Direct adaptive control for gravity-turn descent, J Guidance Control Dyn **22**(2) 373-375 (Mar-Apr 1999), 8T413
Electric propulsion for remote sensing from low orbits, J Guidance Control Dyn **22**(2) 313-321 (Mar-Apr 1999), 8A415
Spaceflight Dynamics 1998, Volume 100 Parts I and II (Univelt, San Diego, 1998) 9N15
Global dynamical behavior of a three-body system with flexible connection in the gravitational field, Arch Appl Mech **69**(1) 47-54 (Feb 1999), 9A309
Stability and instability of an earth satellite with a cylindrical shield in the Newtonian central force field for accuracy, JSME Int J Ser C **40**(3) 406-415 (Sep 1997), 9A310
Stability behavior of the rotational motion in a circular orbit for an elastic-rigid body, Mech Res Commun **26**(2) 129-137 (Mar-Apr 1999), 11A304
Initial adjoint-variable guess technique and its application in optimal orbital transfer, J Guidance Control Dyn **22**(3) 490-492 (May-Jun 1999), 11T380
Minimum-time low-thrust rendezvous and transfer using epoch mean longitude formulation, J Guidance Control Dyn **22**(3) 421-432 (May-Jun 1999), 11T381
Nonlinear digital scheme for attitude tracking, J Guidance Control Dyn **22**(3) 467-477 (May-Jun 1999), 11T383
Oshmantial attitude and attitude-rate estimation using integrated-rate parameters, J Guidance Control Dyn **22**(3) 385-394 (May-Jun 1999), 11T385
Modeling and control of a gravity gradient stabilized satellite, Model Ident Control **20**(1) 3-26 (Jan 1999), 12A422

168P. Other topics in astronautics

Effect of the magnetopause shapes of Jupiter and Saturn on magnetosheath parameters, Planet Space Sci **46**(5) 507-514 (May 1998), 1A1219
Space-based-laser wavelength selection for existing beam control technology levels, AIAA J **36**(8) 1446-1450 (Aug 1998), 2T359
Asteroids, Comets, Meteors 1996 - IV, Planet Space Sci **46**(8) 835-1073 (Aug 1998), 3T278
Behavior of space membrane at retrieval phase (Japanese), Proc JSCE **598**(I-44) 247-256 (Jul 1998), 3A279
Dynamics of comets and asteroids and their roll in earth history, Celest Mech Dyn Astron **69**(1-2) 25-254 (1997), 3A280
Analysis and control of space tether at retrieval phase (Japanese), Proc JSCE **598**(I-44) 239-246 (Jul 1998), 3A593
Acceleration of charged particles in corotating interaction regions (CIR): A review with particular emphasis on the Ulysses mission, Surveys Geophys **19**(3) 211-278 (1998), 4A284
Deductive design method for space transportation systems, Memoirs Fac Eng Kyushu Univ **58**(2) 111-124 (Jun 1998), 4A285
RDAN97: An analytical development of rigid earth nutation series using the torque approach, Celest Mech Dyn Astron **70**(4) 215-253 (1998), 5A253
Cassini-Huygens mission to Titan and the Saturnian system, Planet Space Sci **46**(9-10) 1079-1421 (Sep-Oct 1998), 6T282
Direct simulation of space debris evolution, J Spacecraft Rockets **36**(1) 114-123 (Jan-Feb 1999), 7A274
Interplanetary meteoroid environment model update, J Spacecraft Rockets **36**(1) 124-132 (Jan-Feb 1999), 7A275
Planetary-entry gas dynamics, Annu Rev Fluid Mech **31** 459-494 (1999), 7A1001
Obtaining the free frequencies of the non-rigid Earth, Celest Mech Dyn Astron **71**(2) 95-108 (1998), 8A287
Design of a deployable antenna truss structure with telescopic members, JSME Int J Ser C **42**(1) 110-122 (Mar 1999), 9A311
Estimation of the force and location of an impact exerted on a spacecraft, JSME Int J Ser C **41**(4) 829-835 (Dec 1998), 9A312
Long range collision effects for drifting velocity distributions, Planet Space Sci **47**(1-2) 57-66 (Jan-Feb 1999), 9A313
Rio de Janeiro international workshop on planetary sciences, Planet Space Sci **47**(5) 591-719 (May 1999), 10T325
46P/Wirtanen - The target of the ROSETTA mission: Observations, modeling, and future work, Planet Space Sci **47**(6-7) 725-881 (Jun-Jul 1999), 12T268
Nonsteady behavior of solar dynamic power systems with Stirling cycle for space stations, Aerospace Sci Tech **3**(1) 49-58 (Jan 1999), 12A269

168Y. Computational techniques

Comparison of four filtering options for a radar tracking problem, J Guidance Control Dyn **21**(4) 618-623 (Jul-Aug 1998), 1T410
Closest approach in universal variables, Celest Mech Dyn Astron **69**(4) 331-346 (1997), 3A281
Convergence of Newton-Raphson iteration with Kepler's equation, Celest Mech Dyn Astron **69**(4) 357-372 (1997), 3A282
Effects on the nutation of the non-zonal harmonics of third degree, Celest Mech Dyn Astron **69**(4) 373-402 (1997), 3A283
Existence and stability of $L_{4,5}$ in the relativistic restricted three-body problem, Celest Mech Dyn Astron **69**(3) 271-281 (1997), 3A284
Inverse problem of dynamics for systems with nonstationary Lagrangian, Celest Mech Dyn Astron **69**(4) 347-355 (1997), 3A285
Multi-angle averaging theorem applied to the J_2 problem, Celest Mech Dyn Astron **69**(3) 255-270 (1997), 3A286
Novel analysis of tadpole and horseshoe orbits, Celest Mech Dyn Astron **69**(3) 283-291 (1997), 3A287
Guidance algorithm design: A nonlinear inverse approach, J Guidance Control Dyn **21**(5) 742-746 (Sep-Oct 1998), 3T405
Comparison of numerical methods for the integration of natural satellite systems, Celest Mech Dyn Astron **70**(2) 99-113 (1998), 4A286
Fast procedure solving Gauss' form of Kepler's equation, Celest Mech Dyn Astron **70**(2) 115-130 (1998), 4A287
Symplectic integrators: Rotations and roundoff errors, Celest Mech Dyn Astron **70**(1) 1-21 (1998), 4A288
Proceedings of the NSF-CBMS regional conference on Numerical Analysis of Hamiltonian Differential Equations, Appl Numer Math **29**(1) 3-165 (Jan 1999), 5A45
Chaotic dynamics of planet-encountering bodies, Celest Mech Dyn Astron **70**(3) 181-200 (1998), 5A254
Effects on the nutation of $C_{4,m}$ and $S_{4,m}$ harmonics, Celest Mech Dyn Astron **70**(3) 147-157 (1998), 5A255
Evolution of the stable and unstable manifold of an equilibrium point, Celest Mech Dyn Astron **70**(3) 159-165 (1998), 5A256
Perturbation theory of tori without complete Fourier expansion, Celest Mech Dyn Astron **70**(4) 271-278 (1998), 5A257
Unified symbolic algorithm of Gauss method for near-parabolic orbits, Celest Mech Dyn Astron **70**(3) 201-214 (1998), 5A258
Algorithms for attitude determination using the global positioning system, J Guidance Control Dyn **21**(6) 846-852 (Nov-Dec 1998), 5T361
Attitude stability of DeBra-Delp satellites in circular orbit, J Guidance Control Dyn **21**(6) 965-970 (Nov-Dec 1998), 5T362
Efficient solution of spacecraft thermal models using preconditioned conjugate gradient methods, J Spacecraft Rockets **35**(6) 760-764 (Nov-Dec 1998), 7A276
Derivatives of the gravity potential with respect to rectangular coordinates, Celest Mech Dyn Astron **71**(2) 137-151 (1998), 8A288
Efficient and optimal attitude determination using recursive global positioning system signal operations, J Guidance Control Dyn **22**(2) 193-201 (Mar-Apr 1999), 8A414
Fast computation of satellite gravitational gradient, Celest Mech Dyn Astron **71**(3) 157-166 (1998), 10A326
Explicit symplectic integrator for highly eccentric orbits, Celest Mech Dyn Astron **71**(4) 229-241 (1998), 11A305
Iterative solution to perturbed Kepler problem via Kustaanheimo-Stiefel equation, Celest Mech Dyn Astron **71**(4) 273-287 (1998), 11A306
Initial adjoint-variable guess technique and its application in optimal orbital transfer, J Guidance Control Dyn **22**(3) 490-492 (May-Jun 1999), 11T380

168Z. Experimental techniques

Alpha magnetic spectrometer, Acta Phys Polonica B **B30**(7) 2445-2452 (Jul 1999), 11T307

Magic telescope project, Acta Phys Polonica B **B30**(7) 2231-2349 (Jul 1999), 11T308

170. EXPLOSIONS AND BALLISTICS

170A. General theory

Spherical solutions of an underwater explosion bubble, Shock Vib **5**(2) 89-102 (1998), 5A259

170C. Explosion, detonation, deflagration

Flame dynamics in a vented vessel connected to a duct - 1: Mechanism of vessel-duct interaction, Combust Flame **116**(1-2) 259-271 (Jan 1999), 2A360
Flame dynamics in a vented vessel connected to a duct - 2: Influence of ignition site, membrane rupture, and turbulence, Combust Flame **116**(1-2) 272-281 (Jan 1999), 2A361
Formation and evolution of 2D cellular detonations, Combust Flame **116**(1-2) 154-165 (Jan 1999), 2A362
Bayesian methods for the response curve of the explosive devices (Chinese), J Beijing IT **18**(2) 133-138 (Apr 1998), 5A260
Revised KHT equation of state to predict explosives' detonation property (Chinese), J Beijing IT **18**(3) 269-273 (Jun 1998), 5A261
Accounting for reactant consumption in the thermal explosion problem - Part IV: Numerical solution of the Arrhenius problem, Combust Flame **117**(1-2) 422-428 (Apr 1999), 7A277
Detonations of starch suspensions in gaseous O_2-N_2 and stoichiometric H_2-O_2 mixtures, Combust Flame **117**(3) 477-492 (May 1999), 7A278
Numerical simulation of deflagration-to-detonation transition: The role of shock-flame interactions in turbulent flames, Combust Flame **117**(1-2) 323-339 (Apr 1999), 7A279
Necessary condition for adiabatic explosion behind a shock of arbitrary dynamics (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 95-102 (Jan 1999), 9A314
Condition for explosion triggered by a shock resulting from the expansion of a compressible medium (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 467-470 (May 1999), 11A283

170L. Guns, ballistics

Liquid Propellant Gun Technology (AIAA, Reston, VA, 1997) 3R26

170P. Other topics in explosions and ballistics

Camouflets and their effect on runway support, Comput Struct **69**(6) 695-706 (Dec 1998), 4A289
Numerical simulation of self-ignition hazard in ammunition (Chinese), J Tsinghua Univ Sci Tech **38**(7) 78-81 (Jul 1998), 6A283
Proceedings of the International Workshop on Industrial Applications of Explosion, Shock-Wave and High Pressure Phenomena, J Mat Processing Tech **85**(1-3) 4-231 (Jan 1999), 6T284
Analysis of circular tubes under explosive welding (Chinese), J Xi'an Jiaotong Univ **33**(2) 64-66 (1999), 8A289

170Y. Computational techniques

Numerical Modeling of Explosives and Propellants, Second Edition (CRC Press, Boca Raton FL, 1998) 4N5
Dynamic response of a stiffened laminated composite plate subjected to blast load, J Sound Vib **221**(3) 371-389 (Apr 1999), 9A315

170Z. Experimental techniques

Dynamic response of a stiffened laminated composite plate subjected to blast load, J Sound Vib **221**(3) 371-389 (Apr 1999), 9A315

172. ACOUSTICS

172A. General theory

Real acoustic power of a planar annular membrane radiation for axially-symmetric free vibrations, Arch Acoust **22**(4) 455-462 (1997), 1A303
Exact solution for 1D acoustic fields in ducts with polynomial mean temperature profiles, J Vib Acoust **120**(4) 965-969 (Oct 1998), 2A363
Nonanalytic nonlinear oscillations: Christiaan Huygens, quadratic Schrodinger equations, and solitary waves, J Acoust Soc Am **104**(3-PT1) 1289-1300 (Sep 1998), 2A364
Fluctuations of vorticity and entropy as sources of acoustical exergy, J Sound Vib **216**(3) 521-527 (Sep 1998), 3A288
Modeling of pulsed finite-amplitude focused sound beams in time domain, J Acoust Soc Am **104**(4) 2061-2072 (Oct 1998), 3A289
Classical electrodynamics and acoustics - Part 2: Sound radiation by moving quadrupoles, J Vib Acoust **121**(1) 126-130 (Jan 1999), 4A290
Second-harmonic generation of a conical sound source, J Acoust Soc Am **104**(5) 2645-2653 (Nov 1998), 4A291
Supersonic acoustic intensity on planar sources, J Acoust Soc Am **104**(5) 2845-2850 (Nov 1998), 4A292
Sounds of Our Times: Two Hundred Years of Acoustics (Springer-Verlag, New York, 1998) 5R5
Flanged waveguide antenna: Discrete reciprocity and conservation, Wave Motion **29**(1) 81-95 (Jan 1998), 5A262
Acoustics: Basic Physics, Theory, and Methods (Academic Press, San Diego CA, 1999) 7R4
Noise Control and Acoustics Division - 1998 (ASME, New York, 1998) 7N11
Acoustic radiation from a rectangular plate reinforced by springs at arbitrary locations, J Sound Vib **220**(1) 117-133 (Feb 1999), 7A149
One-channel time-reversal in chaotic cavities: Theoretical limits, J Acoust Soc Am **105**(2) 611-617 (Feb 1999), 7A280
Architectural Acoustics: Blending Sound Sources, Sound Fields, and Listeners (Springer-Verlag, New York, 1998) 8N8
Structure-borne sound power and source characterization in multi-point-connected systems - Part 2: About mobility functions and free velocities, J Sound Vib **220**(2) 203-224 (Feb 1999), 8A199
Interaction of counterpropagating acoustic waves in media with nonlinear dissipation and in hysteretic media, Wave Motion **29**(3) 211-221 (Apr 1999), 8A290
Multiple microphone recording technique for the generation of virtual acoustic images, J Acoust Soc Am **105**(3) 1503-1516 (Mar 1999), 8A291
Oscillations in harmonics generated by the interaction of acoustic beams, J Acoust Soc Am **105**(3) 1575-1583 (Mar 1999), 8A292
Proceedings of joint meeting 137th regular meeting of the Acoustical Society of America - 2nd Convention of the European Acoustics Association form Acusticum 1999: Integrating the 25th German Acoustics DEGA Conference, Acoust Lett **21**(6) 8-5500 (Dec 1997), 8T293
Radiation of non-stationary spherical pressure waves by a moving and partially permeable boundary, J Appl Math Mech **62**(5) 729-736 (1998), 8A294
Spectral properties and stabilization of acoustic flow, SIAM J Appl Math **59**(1) 17-34 (Sep 1998), 8T295
Acoustics of Fluid-Structure Interactions (Cambridge UP, New York, 1998) 9R7
Propagation of small perturbations in two simple aeroelastic systems, J Sound Vib **222**(1) 152-162 (Apr 1999), 10A309
Empirical scheme to predict the sound transmission loss of single-thickness panels, J Sound Vib **222**(1) 145-151 (Apr 1999), 10T327
Theoretical investigation of the behavior of droplets in axial acoustic fields, J Vib Acoust **121**(3) 286-294 (Jul 1999), 10A328
Rayleigh's computation of the "end correction" with application to the compression wave generated by a train entering a tunnel, J Fluid Mech **385** 63-78 (Apr 1999), 11A313
Time-frequency entropy measure of uncertainty applied to dolphin echolocation signals, Acoust Lett **21**(8) 155-160 (Feb 1998), 12A270

172B. Sound generation by moving surfaces

Indirect BE formulation for multi-valued impedance simulation in structural acoustics, Appl Math Model **22**(6) 379-393 (Jun 1998), 1A67
Aeroacoustic and Active Noise Control (AIAA, Reston, VA, 1997) 2N6
Airfoil self-noise generated in a cascade, AIAA J **36**(9) 1575-1582 (Sep 1998), 2A365
Analysis of acoustic emissions from a steel bridge hanger, Res Nondestructive Eval **10**(3) 123-145 (1998), 2A366
Compression wave generated by a high-speed train at a vented tunnel entrance, J Acoust Soc Am **104**(3-PT1) 1158-1164 (Sep 1998), 2A367
Statistical and connectionist approaches to modeling the assessment of noise annoyance inside passenger vehicles, Appl Acoust **55**(4) 275-291 (Dec 1998), 2A370
Noise control of engine driven portable generator sets, Appl Acoust **55**(4) 307-328 (Dec 1998), 2A422
Modeling and theoretical predictions of sound radiation from composite cylindrical thin shell immersed in heavy fluids - II (Chinese), J Xi'an Jiaotong Univ **32**(9) 84-88 (1998), 3A265
Noise radiation from engine cooling fans, J Sound Vib **216**(1) 107-132 (Sep 1998), 3A290
Theoretical prediction of sound radiation from double-layer composite cylindrical thin shell immersed in heavy fluid - Part I (Chinese), J Xi'an Jiaotong Univ **32**(7) 76-79 (1998), 3A291
Acoustic systems with multiple incoherent sources and its application in studying noises radiated from vehicle engine, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 68-75 (Jun 1998), 4A293
Calculation of sound radiated by a helicopter rotor in hover with an integral equation (French), Acustica **84**(5) 793-800 (Sep-Oct 1998), 5A263
High frequency noise generation in small axial flow fans, J Sound Vib **218**(2) 177-204 (Nov 1998), 5A264
Parametrically excited rail-wheel vibrations due to track-support irregularities, Acustica **84**(5) 854-859 (Sep-Oct 1998), 5A265
Recording acoustic emission waves produced by fatigue cracks, Russian Ultrasonics **28**(3) 82-97 (1998), 5A266
Simplified characterization of multiple point excited structures using mobility matrix eigenvalues and eigenvectors, Acustica **84**(5) 843-853 (Sep-Oct 1998), 5A267
Sound exposure level of railway bridge noise, J Acoust Soc Am **104**(6) 3426-3431 (Dec 1998), 5A268
Study of acoustic emission model in drilling process (Chinese), J Beijing IT **18**(3) 284-289 (Jun 1998), 5A269
Supersonic quadrupole noise theory for high-speed helicopter rotors, J Sound Vib **218**(3) 481-500 (Dec 1998), 5A270
Theoretical study of acoustic emission mathematical model during turning (Chinese), J Beijing IT **18**(2) 183-189 (Apr 1998), 5A271
Theoretical study of mathematical model of acoustic emission of turning tool crack (Chinese), J Beijing IT **18**(2) 170-175 (Apr 1998), 5A272
Transmission characteristics of acoustic emission from grinding process (Chinese), J Beijing IT **18**(4) 415-419 (Aug 1998), 5A273
Study on disc brake squeal using closed-loop coupling model (Chinese), J Tsinghua Univ Sci Tech **38**(8) 88-91 (Aug 1998), 6A1097
Noise Control and Acoustics Division - 1998 (ASME, New York, 1998) 7N11
Acoustic recovery of lost power in pulse tube refrigerators, J Acoust Soc Am **105**(2) 711-724 (Feb 1999), 7A281
Declared noise emission values of machinery and equipment based on determination of the combined standard deviation, Appl Acoust **57**(1) 1-15 (May 1999), 7A282
Sound-field characterization of a power transformer, Appl Acoust **56**(4) 257-272 (Apr 1999), 7A283
Surface vibration propagation over a layered elastic half-space with an inclusion, Appl Acoust **56**(4) 283-296 (Apr 1999), 7A284
Theoretical prediction of sound radiation at far field for a submerged cylindrical shell (Chinese), J Xi'an Jiaotong Univ **33**(1) 107-110 (1999), 7A285
Effect of an air-back cavity on the sound field reflected by a vibrating plate, Appl Acoust **56**(4) 241-256 (Apr 1999), 7A294
Impact of refraction on train noise, Appl Acoust **57**(3) 279-287 (Jul 1999), 7A295
Active control of sound radiation from rectangular plates using multiple piezoelectric actuators, Appl Acoust **57**(4) 327-343 (Aug 1999), 7A307
Proceedings of joint meeting 137th regular meeting of the Acoustical Society of America - 2nd Convention of the European Acoustics Association form Acusticum 1999: Integrating the 25th German Acoustics DEGA Conference, Acoust Lett **21**(6) 8-5500 (Dec 1997), 8T293
Acoustic radiation efficiency of thin plate at low frequency band, J Xi'an Jiaotong Univ **33**(3) 108-110 (1999), 8T296
Multiple multipole expansion approach for predicting the sound power of vibrating structures, Acustica **85**(1) 47-53 (Jan-Feb 1999), 8A297
Comparison between modal analysis and FE modeling of a marimba bar, Acustica **85**(2) 258-266 (Mar-Apr 1999), 9A35
Vibroacoustic response of a cylindrical shell structure with viscoelastic and poroelastic materials, Appl Acoust **58**(2) 131-152 (Oct 1999), 9A39
Transient sound fields from impacted plates: Comparison between numerical simulations and experiments, J Sound Vib **221**(3) 471-490 (Apr 1999), 9A241
Calculation of the acoustic nearfield of vibrating structures from vibration measurements - Applications to sonar arrays, Acustica **85**(2) 221-227 (Mar-Apr 1999), 9A316
Estimation and measurement of the sound power radiated from a circular plate with a solid shaft and a solid cylinder, JSME Int J Ser C **41**(1) 13-29 (Mar 1998), 9A317
Influence of thickness defects on the acoustical radiation of plates (French), Acustica **85**(2) 213-220 (Mar-Apr 1999), 9A318
Numerical calculation for determining sonar self noise sources due to structural vibration, Appl Acoust **58**(1) 19-32 (Sep 1999), 9A319
Road traffic noise prediction model in Thailand, Appl Acoust **58**(2) 123-130 (Oct 1999), 9A320
Study on active forces control of structure-borne sound in enclosed space (Chinese), J Vib Eng **12**(1) 15-20 (Mar 1999), 9A321
Installation effects on fan acoustic and aerodynamic performance, Noise Control Eng J **47**(1) 3-7 (Jan-Feb 1999), 10A329
Theoretical prediction of sound radiation from a heavy fluid-loaded cylindrical coated shell, Chinese J Mech Eng **11**(4) 249-256 (Dec 1998), 10A330
Simulation of tiltrotor fountain flow field effects using a finite volume technique: An aero-acoustic study, J Am Helicopter Soc **44**(2) 150-153 (Apr 1999), 10T334
Helicopter rotor noise prediction using ONERA and DLR Euler-Kirchhoff methods, J Am Helicopter Soc **44**(2) 121-131 (Apr 1999), 10T352
Comparison of acoustic fields radiated from piezoceramic and piezocomposite focused radiators, J Acoust Soc Am **105**(5) 2612-2617 (May 1999), 11A309
Experimental study of a radial mode thermoacoustic prime mover, J Acoust Soc Am **105**(5) 2652-2662 (May 1999), 11A310
Hybrid model for vibroacoustic studies, Acustica **85**(3) 312-324 (May-Jun 1999), 12A271
Practical probability expression for road traffic noise level around traffic signals, Acoust Lett **21**(7) 136-143 (Jan 1998), 12A272
Rail-wheel parametric excitation: Laboratory and field measurements, Acustica **85**(3) 355-365 (May-Jun 1999), 12A273
Validation of a model for railway rolling noise using field measurements with sinusoidally profiled wheels, J Sound Vib **223**(4) 587-609 (Jun 1999), 12A274

172C. Sound generation by flow

Acoustic nonlinearity of a circular orifice: An experimental study of the instantaneous pressure-flow relationship, Noise Control Eng J **46**(3) 97-107 (May-Jun 1998), 1A304
Supersonic jet noise reductions predicted with increased jet spreading rate, J Fluids Eng **120**(3) 471-476 (Sep 1998), 1A1129
Airfoil self-noise generated in a cascade, AIAA J **36**(9) 1575-1582 (Sep 1998), 2A365
Mathematical modeling of a generalized Rijke tube, Int J Eng Sci **36**(11) 1235-1264 (Sep 1998), 2A368
Sound radiated by a turbulent bubbly flow, J Eng Math **34**(1-2) 45-55 (Jul 1998), 2A369
Statistical and connectionist approaches to modeling the assessment of noise annoyance inside passenger vehicles, Appl Acoust **55**(4) 275-291 (Dec 1998), 2A370
Mach wave radiation by mixing layers - Part II: Analysis of the source field, Theor Comput Fluid Dyn **12**(2) 91-108 (Sep 1998), 3A258
Mach wave radiation by mixing layers - Part I: Analysis of the sound field, Theor Comput Fluid Dyn **12**(2) 73-90 (Sep 1998), 3A260
Noise radiation from engine cooling fans, J Sound Vib **216**(1) 107-132 (Sep 1998), 3A290
Acoustic performance of flexible bellows, J Acoust Soc Am **104**(4) 2040-2047 (Oct 1998), 3A292
Feedback mechanism of low-speed edgetones, J Acoust Soc Am **104**(4) 2084-2089 (Oct 1998), 3A293
Time-domain numerical simulation of a flow-impedance tube, J Comput Phys **146**(1) 29-57 (Oct 1998), 3T294
Numerical simulation of the generation of axisymmetric mode jet screech tones, AIAA J **36**(10) 1801-1807 (Oct 1998), 3A343
Experimental study of flow induced cavity oscillation (Chinese), J Shanghai Jiaotong Univ **32**(7) 32-35 (Jul 1998), 4A294
Gas path sound transmission in spherically-shaped reciprocating compressors: Theory and experiment, J Vib Acoust **121**(1) 8-17 (Jan 1999), 4A295
Influence of angle-of-attack or sideslip on far-field propeller noise, J Vib Acoust **121**(1) 50-58 (Jan 1999), 4A296

Mean flow refraction effects on sound radiated from localized sources in a jet, J Fluid Mech **370** 149-174 (Sep 1998), 4A297
High frequency noise generation in small axial flow fans, J Sound Vib **218**(2) 177-204 (Nov 1998), 5A264
Effects of a background axisymmetric potential flow on vortex ring pairing sound, J Acoust Soc Am **104**(6) 3273-3281 (Dec 1998), 5A274
Screech tone noise and mode switching in supersonic swirling jets, AIAA J **36**(11) 1968- 1974 (Nov 1998), 5A275
Effect of mean flow-source motion on sound-pressure fields with absorption, J Acoust Soc Am **105**(1) 57-64 (Jan 1999), 6A285
Interaction of sound from supersonic jets with nearby structures, AIAA J **36**(12) 2153-2162 (Dec 1998), 6A286
Sound radiation in a planar trifurcated lined duct, Wave Motion **29**(2) 157-174 (Feb 1999), 6A287
Application of large-eddy simulations and Kirchhoff method to jet noise prediction, AIAA J **36**(12) 2170-2178 (Dec 1998), 6A319
Computation of vortex shedding and radiated sound for a circular cylinder: Subcritical to transcritical Reynolds numbers, Theor Comput Fluid Dyn **12**(4) 233-253 (Dec 1998), 6A1259
Finite element modeling of the acoustic wave propagation from a cavity near a free surface, J Fluids Eng **121**(1) 205-208 (Mar 1999), 7A27
Proceedings of joint meeting 137th regular meeting of the Acoustical Society of America - 2nd Convention of the European Acoustics Association form Acusticum 1999: Integrating the 25th German Acoustics DEGA Conference, Acoust Lett **21**(6) 8-5500 (Dec 1997), 8T293
Attenuation of cavity flow oscillation through leading edge flow control, J Sound Vib **221**(1) 23-47 (Mar 1999), 8A298
Calculation of basic sound radiation of axisymmetric jets by direct numerical simulations, AIAA J **37**(2) 161-168 (Feb 1999), 8A299
Determination of the blockage area function of a finite duct from a single pressure response measurement, J Sound Vib **221**(1) 180-186 (Mar 1999), 8T300
Experimental investigation of screech noise generation, J Fluid Mech **378** 71-96 (Jan 1999), 8A301
Generation on mechanism and characteristics of intermittent exhaust noise (Chinese), J Xi'an Jiaotong Univ **33**(3) 95-99 (1999), 8A302
Investigation on the noise of cavitation (Chinese), J Shanghai Jiaotong Univ **32**(12) 60-63 (Dec 1998), 8A303
Jet mixing noise from fine-scale turbulence, AIAA J **37**(2) 145-153 (Feb 1999), 8A304
Noise measurements in supersonic jets treated with the Mach wave elimination method, AIAA J **37**(2) 154-160 (Feb 1999), 8A305
Simulation of vehicle pass-by noise radiation, J Vib Acoust **121**(2) 197-203 (Apr 1999), 8A306
Sound amplification by a supersonic jet, AIAA J **37**(2) 270-272 (Feb 1999), 8T307
Sound generation by shock-vortex interactions, J Fluid Mech **380** 81-116 (Feb 1999), 8A308
Frequency property about flow-induced oscillation of cavity without flange plate (Chinese), J Dalian Univ Tech **38**(6) 695-699 (Nov 1998), 8A1156
Acoustic resonance of a cavity due to the natural instability of a flow generated by side injection (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 77-83 (Jan 1999), 9A322
Effects of counterflow on the aeroacoustic properties of a supersonic jet, J Aircraft **36**(2) 451-457 (Mar-Apr 1999), 9A323
Pressure pulsation caused by vortex shedding from a perforated plate with holes: Effects of parameters on lock-in phenomenon, JSME Int J Ser C **41**(1) 30-36 (Mar 1998), 9A324
Sound directivity generated by helicopter rotors using wave tracing concepts, J Sound Vib **221**(3) 415-441 (Apr 1999), 9A325
Analysis of the flow and aerodynamic acoustic sources of a centrifugal impeller, J Sound Vib **222**(3) 505-511 (May 1999), 10T331
Direct computation of the sound generated by vortex pairing in an axisymmetric jet, J Fluid Mech **383** 113-142 (Mar 1999), 10A332
Generalized flow noise prediction curves for air duct elements, J Sound Vib **222**(1) 163-169 (Apr 1999), 10T333
Simulation of tiltrotor fountain flow field effects using a finite volume technique: An aero-acoustic study, J Am Helicopter Soc **44**(2) 150-153 (Apr 1999), 10T334
Acoustical characteristics of leak signals in plastic water distribution pipes, Appl Acoust **58**(3) 235-254 (Nov 1999), 11A311
Generation of discrete frequency tones by the flow around an aerofoil, J Sound Vib **222**(5) 753-779 (May 1999), 11A312
Rayleigh's computation of the "end correction" with application to the compression wave generated by a train entering a tunnel, J Fluid Mech **385** 63-78 (Apr 1999), 11A313
Scattering of acoustic waves by a vortex, J Fluid Mech **386** 305-328 (May 1999), 11A314
Simulation model and computation of noise emission of an installed propeller, Comput Model Simul in Eng **4**(2) 104-116 (May 1999), 12T330
Pseudo-sound and acoustic regimes in compressible turbulence (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 673-678 (Jul 1999), 12A1198

172D. Sound waves in gases

Calculation of sound reduction by a screen in a turbulent atmosphere using the parabolic equation method, Acustica **84**(4) 599-606 (Jul-Aug 1998), 3A295
Experimental investigation on the self-excitation of thermoacoustic standing wave in a vertical subcooled boiling channel (Chinese), J Huazhong Univ Sci Tech **26**(7) 88-90 (Sep 1998), 4A298
Approximate analytical solution for plane sound wave transmission in inhomogeneous ducts, J Sound Vib **217**(5) 853-867 (Nov 1998), 5A276
Coupled simulation of meteorological parameters and sound level in a narrow valley, Appl Acoust **56**(2) 73-100 (Feb 1999), 5A277
Exact transfer matrix formulation of plane sound wave transmission in inhomogeneous ducts, J Sound Vib **217**(5) 869-882 (Nov 1998), 5A278
Measurement and interpretation of ground response to airblast, Noise Control Eng J **46**(5) 191-198 (Sep-Oct 1998), 6A288
Nonlinear dynamics of vertically propagating acoustic waves in a stratified atmosphere, Acustica **84**(6) 1002-1006 (Nov-Dec 1998), 6A289
Proceedings of joint meeting 137th regular meeting of the Acoustical Society of America - 2nd Convention of the European Acoustics Association form Acusticum 1999: Integrating the 25th German Acoustics DEGA Conference, Acoust Lett **21**(6) 8-5500 (Dec 1997), 8T293
Acoustical energy and transfer in a sound field (Chinese), J Vib Eng **12**(1) 125-132 (Mar 1999), 9A326
Application of a series-line acoustic resonator to measurements, JSME Int J Ser C **41**(4) 798-805 (Dec 1998), 9A327
Temperature dependence of collective phonon relaxation time and acoustic attenuation in pure GaAs, J Acoust Soc Am **105**(4) 2085-2092 (Apr 1999), 9A328
Theory of sound propagation in a duct with a branched tube using modal decomposition, Acustica **85**(2) 153-169 (Mar-Apr 1999), 9A329
Experimental study on the aeroacoustic behavior of a forward-curved blades centrifugal fan, J Fluids Eng **121**(2) 276-281 (Jun 1999), 9A1290
Speed of sound in the homogeneous vapor-liquid mixture, Arch Thermodyn **19**(1-2) 5-31 (1998), 10A335

172E. Sound waves in liquids (underwater acoustics)

Broadband model-based processing for shallow ocean environments, J Acoust Soc Am **104**(1) 275-287 (Jul 1998), 1A305
Dependence of scattered acoustical signal intensity on the form of distribution of plankton concentration, J Acoust Soc Am **104**(1) 141-145 (Jul 1998), 1A306
Determining an ocean internal wave model using acoustic log-amplitude and phase: A Rytov inverse, J Acoust Soc Am **104**(1) 146-155 (Jul 1998), 1A307
Environmental acoustic influences on array beam response, J Acoust Soc Am **104**(1) 133-140 (Jul 1998), 1A308
Effects of elastic heterogeneities and anisotropy on mode coupling and signals in shallow water, J Acoust Soc Am **104**(2-PT1) 747-757 (Aug 1998), 2A371
Matched-beam processing: Application to a horizontal line array in shallow water, J Acoust Soc Am **104**(3-PT1) 1316-1330 (Sep 1998), 2A372
Minimum variance distortionless response beamforming of acoustic array data, J Acoust Soc Am **104**(2-PT1) 947-954 (Aug 1998), 2A373
Modal analysis of wave fields in range-independent oceanic media, J Acoust Soc Am **104**(2-PT1) 838-845 (Aug 1998), 2A374
Numerical simulation of remote acoustic sensing of ocean temperature in the Fram Strait environment, J Acoust Soc Am **104**(2-PT1) 738-746 (Aug 1998), 2A375
Ocean acoustic inversion with estimation of *a posteriori* probability distributions, J Acoust Soc Am **104**(2-PT1) 808-819 (Aug 1998), 2A376
Photoacoustic waves excited in liquids by fiber-transmitted laser pulses, J Acoust Soc Am **104**(2-PT1) 890-897 (Aug 1998), 2A377
Physical models for estimating scattering of underwater sound by algae, J Acoust Soc Am **104**(2-PT1) 791-800 (Aug 1998), 2A378
Use of stair steps to approximate bathymetry changes in ocean acoustic models, J Acoust Soc Am **104**(3-PT1) 1310-1315 (Sep 1998), 2A379
Wave propagation in range-dependent poro-acoustic waveguides, J Acoust Soc Am **104**(2-PT1) 783-790 (Aug 1998), 2A380
Discrete transparent boundary conditions for wide angle parabolic equations in underwater acoustics, J Comput Phys **145**(2) 611-638 (Sep 1998), 3A296
Effect of orientation on broadband acoustic scattering of Antarctic krill *Euphausia superba*: Implications for inverting zooplankton spectral acoustic signatures for angle of orientation, J Acoust Soc Am **104**(4) 2121-2135 (Oct 1998), 3A297
Simulation of target echo using the image-pulse theory, Acustica **84**(4) 616-620 (Jul-Aug 1998), 3A298
Spectral approach to 3D object scattering in layered media applied to scattering from submerged spheres, J Acoust Soc Am **104**(4) 2105-2113 (Oct 1998), 3A299
Stochastic ray theory for long-range sound propagation in deep ocean environments, J Acoust Soc Am **104**(4) 2090-2104 (Oct 1998), 3A300
Theory of acoustic radiation near a hyperbolic ridge, J Acoust Soc Am **104**(4) 2136-2148 (Oct 1998), 3A301
Direct and continuous measurement of depth-dependent reflection and coefficients of Rayleigh waves for surface discontinuity: Normal slot, J Acoust Soc Am **104**(5) 2733-2740 (Nov 1998), 4A299
Fourier series solution for the radiation impedance of a finite cylinder, J Acoust Soc Am **104**(5) 2773-2778 (Nov 1998), 4A300
Thin-sediment shear-induced effects on low-frequency broadband acoustic propagation in a shallow continental sea, J Acoust Soc Am **104**(5) 2718-2726 (Nov 1998), 4A301
Acoustic detection of gas bubbles in a pipe, Acustica **84**(5) 801-814 (Sep-Oct 1998), 5A279
Improved vertical array performance in shallow water with a directional noise field, J Acoust Soc Am **104**(6) 3326-3338 (Dec 1998), 5A280
Time-reversing array retrofocusing in simple dynamic underwater environments, J Acoust Soc Am **104**(6) 3339-3350 (Dec 1998), 5A281
Bubble influence on the behavior of sea-water plasma-based sound sources, Acustica **84**(6) 1025-1030 (Nov-Dec 1998), 6A290
Cell location with front-scan sonar systems, Acoust Lett **21**(4) 65-68 (Oct 1997), 6A291
Mode-based measure of field sensitivity to geoacoustic parameters in weakly range-dependent environments, J Acoust Soc Am **105**(1) 122-129 (Jan 1999), 6A292
Moving point source in a range-dependent environment with fluid flow, Acoust Lett **21**(4) 69-75 (Oct 1997), 6A293
Ocean acoustic models for low frequency propagation in 2D and 3D environments, Acustica **84**(6) 1031-1041 (Nov-Dec 1998), 6A294
Theory and preliminary measurements of the Rayleigh-like collapse of a conical bubble, Acustica **84**(6) 1014-1024 (Nov-Dec 1998), 6A295
Backscattering enhancements due to retroreflection of ultrasonic leaky Rayleigh waves at corners of solid elastic cubes in water, J Acoust Soc Am **105**(2) 700-710 (Feb 1999), 7A286
Capped ceramic underwater sound projector: The "cymbal" transducer, J Acoust Soc Am **105**(2) 591-600 (Feb 1999), 7A287
Effects of earth curvature on 2D ray tracing in underwater acoustics, Appl Acoust **57**(2) 163-177 (Jun 1999), 7A288
Multidimensional inverse source problems of underwater acoustics, European J Appl Math **9**(6) 589-605 (Dec 1998), 7A289
Acoustic cavitation of slightly subcritical bubbles, Phys Fluids **11**(2) 274-287 (Feb 1999), 7A1030
Influence of the presence of an elastic shell in shallow water: Theoretical and experimental study, Acustica **85**(1) 24-30 (Jan-Feb 1999), 8A309
Kronecker autoregressive and spherical harmonic ambient noise models, J Acoust Soc Am **105**(3) 1618-1629 (Mar 1999), 8A310
Long-range and variable focus phase-conjugation experiment in shallow water, J Acoust Soc Am **105**(3) 1597-1604 (Mar 1999), 8A311
Nonlinear dynamics of underwater acoustics, J Sound Vib **220**(5) 771-786 (Mar 1999), 8A312
Physics of 3D scattering from rippled seabeds and buried targets in shallow water, J Acoust Soc Am **105**(3) 1605-1617 (Mar 1999), 8A313
Scaled tank experiments of low-frequency propagation in the SOFAR channel, Acoust Lett **21**(6) 12-17 (Dec 1997), 8A314
Sound transmission in slowly varying circular and annular lined ducts with flow, J Fluid Mech **380** 279-296 (Feb 1999), 8A315
Subarctic frontal effects on long-range acoustic propagation in the North Pacific Ocean, J Acoust Soc Am **105**(3) 1592-1595 (Mar 1999), 8A316
Effects of absorptivity due to fish on transmission loss in shallow water, J Acoust Soc Am **105**(4) 2107-2128 (Apr 1999), 9A330
Effects of salt on bubble acoustic radiation in water, J Acoust Soc Am **105**(4) 2181-2186 (Apr 1999), 9A331
Efficiency of a monopole sound source in the vicinity of a water-loaded plate, J Sound Vib **221**(2) 251-272 (Mar 1999), 9A332
Inversion method of sound pulse propagation to determine sound speed stratification in shallow water, Acustica **85**(2) 203-212 (Mar-Apr 1999), 9A333
Modal scintillation index: A physics-based statistic for acoustic source depth discrimination, J Acoust Soc Am **105**(4) 2170-2180 (Apr 1999), 9A334
Probabilistic reconstruction of underwater 3D acoustic maps, Acustica **85**(2) 197-202 (Mar-Apr 1999), 9A335
Radius of curvature estimation and localization of targets using multiple sonar sensors, J Acoust Soc Am **105**(4) 2318-2331 (Apr 1999), 9A336
Resonant oscillation of a liquid metal column driven by electromagnetic Lorentz force sources, J Acoust Soc Am **105**(4) 2216-2225 (Apr 1999), 9A337
Role of scale structure in scattering from random rough surfaces, J Acoust Soc Am **105**(4) 2187-2202 (Apr 1999), 9A338
Dispersion of longitudinal waves propagating in liquid-filled cylindrical shells, J Acoust Soc Am **105**(5) 2601-2611 (May 1999), 11A315
Measured dependence of the attenuation of audio-frequency sound on concentration in flowing particulate suspensions, Proc Inst Mech Eng E **213**(E1) 45-56 (1999), 11A316
Passive acoustic methods applied to fin whale population density estimation, J Acoust Soc Am **105**(5) 2643-2651 (May 1999), 11A317
Statistical power-flow analysis of an imperfect ribbed cylinder, J Sound Vib **222**(5) 813-832 (May 1999), 11A318
Measurement of the nonlinear behavior of acoustical rigid porous materials, Phys Fluids **11**(6) 1342-1345 (Jun 1999), 11A1074
Acoustic hot-spots and breaking wave noise in the surf zone, J Acoust Soc Am **105**(6) 3151-3167 (Jun 1999), 12A275
Continuous monitoring of fish in a shallow channel using a fixed horizontal sonar, J Acoust Soc Am **105**(6) 3126-3135 (Jun 1999), 12A276
Iterative approach for approximating bubble distributions from attenuation measurements, J Acoust Soc Am **106**(1) 185-189 (Jul 1999), 12A277
Iterative time reversal in the ocean, J Acoust Soc Am **105**(6) 3176-3184 (Jun 1999), 12A278
Mirages in shallow water matched field processing, J Acoust Soc Am **105**(6) 3245-3265 (Jun 1999), 12A279
Seabed sediment attenuation profiles from a movable sub-bottom acoustic vertical array, J Acoust Soc Am **106**(1) 120-130 (Jul 1999), 12A280
Secondary field of a parametric source following interaction with sea surface, J Acoust Soc Am **105**(6) 3108-3114 (Jun 1999), 12A281
Target localization for a 3D multibeam sonar imaging system, J Acoust Soc Am **105**(6) 3168-3175 (Jun 1999), 12A282

172F. Sound waves in solids

Propagation of sound waves of finite amplitude in a horn at frequencies below the cut-off frequency, Arch Acoust **22**(4) 411-421 (1997), 1A309
Ultrasonic wave generation by time-gated microwaves, J Acoust Soc Am **104**(2-PT1) 860-866 (Aug 1998), 2A381
Effect of spatial dispersion on the degeneracies of acoustic-wave branches in crystals, J Acoust Soc Am **104**(4) 2008-2014 (Oct 1998), 3A302
Recording acoustic emission waves produced by fatigue cracks, Russian Ultrasonics **28**(3) 82-97 (1998), 5A266
Calibration and assessment of moment actuator, Acta Mech Solida Sinica **12**(1) 91-94 (1999), 9A179
Acoustic wave generation in viscoelastic rods by time-gated microwaves, J Acoust Soc Am **106**(1) 195-201 (Jul 1999), 12A283

172G. Sound waves in nonhomogeneous, porous and random media

Structural homogenized analysis for a nuclear reactor core, Nucl Eng Des **183**(1-2) 151-156 (Jul 1998), 1A281
Measurements of the two-frequency mutual coherence function for sound propagation through a turbulent atmosphere, J Acoust Soc Am **104**(1) 91-99 (Jul 1998), 1A310
Relation between the inertial coagulation and the amplitudal effect, Arch Acoust **22**(4) 437-444 (1997), 1T311
Remarks on the acoustic parameters of sharp-edged porous media, Int J Eng Sci **36**(9) 1035-1046 (Jul 1998), 1A312

Ultrasonic focusing through inhomogeneous media by application of the inverse scattering problem, J Acoust Soc Am **104**(1) 313-325 (Jul 1998), 1A313
Ultrasonic pulse propagation in inhomogeneous 1D media, J Acoust Soc Am **104**(1) 57-63 (Jul 1998), 1A314
Acoustic scattering problem for periodic, inhomogeneous media, Math Methods Appl Sci **21**(10) 969-983 (Jul 1998), 1A315
Coherence functions of plane and spherical waves in a turbulent medium with the von Karman spectrum of medium inhomogeneities, J Acoust Soc Am **104**(2-PT1) 727-737 (Aug 1998), 2A382
Improved continuum mixture model for wave propagation in fibrous composites, J Acoust Soc Am **104**(2-PT1) 867-873 (Aug 1998), 2A383
Measurement of acoustic stop bands in 2D periodic scattering arrays, J Acoust Soc Am **104**(2-PT1) 694-699 (Aug 1998), 2A384
Nonlinear, low-frequency sound generation in a bubble layer: Theory and laboratory experiment, J Acoust Soc Am **104**(2-PT1) 722-726 (Aug 1998), 2A385
Potential for the presence of additional stop bands in the modal response of regularly ribbed cylinders, J Acoust Soc Am **104**(2-PT1) 700-707 (Aug 1998), 2A386
Sound attenuation in a cylindrical tube due to evaporation-condensation, J Acoust Soc Am **104**(2-PT1) 664-670 (Aug 1998), 2A387
Surface waves above thin porous layers saturated by air at ultrasonic frequencies, J Acoust Soc Am **104**(2-PT1) 882-889 (Aug 1998), 2A388
Pressure fields generated by acoustical pulses propagating in randomly layered media, SIAM J Appl Math **58**(5) 1532-1546 (Oct 1998), 3A303
Sound propagation in air-saturated random packings of beads, J Acoust Soc Am **104**(4) 2004-2007 (Oct 1998), 3A304
Diffraction of sound in a stratified moving atmosphere above an impedance plane, Acustica **84**(4) 607-615 (Jul-Aug 1998), 3A307
Uniqueness theorem for an inverse scattering problem in an exterior domain, SIAM J Math Anal **29**(5) 1118-1128 (Sep 1998), 3A313
Acoustic absorption of porous surfacing with dual porosity, Int J Solids Struct **35**(34-35) 4709-4737 (Dec 1998), 3A314
Dynamic poroelasticity of thinly layered structures, Int J Solids Struct **35**(34-35) 4739-4751 (Dec 1998), 3A573
Sound propagation over convex impedance surfaces, J Acoust Soc Am **104**(5) 2683-2691 (Nov 1998), 4A302
Ultrasound induced cavitation and sonochemical yields, J Acoust Soc Am **104**(5) 2675-2682 (Nov 1998), 4A303
Velocity shift using the Rytov approximation, J Acoust Soc Am **104**(5) 2596-2603 (Nov 1998), 4A304
Caustic diffraction fields in a downward refracting atmosphere, J Acoust Soc Am **104**(6) 3259-3272 (Dec 1998), 5A282
Propagation in random stratified waveguides: A modal-spectral treatment, J Acoust Soc Am **104**(6) 3282-3295 (Dec 1998), 5A283
Prediction of the bulk acoustic properties of fibrous materials at low frequencies, Appl Acoust **56**(2) 101-125 (Feb 1999), 5A292
Acoustic scattering and the spectrum of atmospheric turbulence, J Acoust Soc Am **105**(1) 30-34 (Jan 1999), 6A296
Effect of evaporation-condensation on sound propagation in cylindrical tubes using the low reduced frequency approximation, J Acoust Soc Am **105**(1) 65-73 (Jan 1999), 6A297
Snow cover properties from impulsive noise propagation measurements, Noise Control Eng J **46**(5) 208-214 (Sep-Oct 1998), 6A298
Finite Element Analysis of Acoustic Scattering (Springer-Verlag, New York, 1998) 7R8
Calculated coherence and extinction of sound waves propagating through anisotropic, shear-induced turbulent velocity fluctuations, J Acoust Soc Am **105**(2) 658-671 (Feb 1999), 7A290
Coherent line source in a turbulent atmosphere, J Acoust Soc Am **105**(2) 652-657 (Feb 1999), 7A291
Elliptic polarization of acoustic waves in crystals, Acoust Lett **21**(5) 100-105 (Nov 1997), 7A292
Three-pass mufflers with uniform perforations, J Acoust Soc Am **105**(3) 1548-1562 (Mar 1999), 8A317
Corrections to Foldy's effective medium theory for propagation in bubble clouds and other collections of very small scatterers, J Acoust Soc Am **105**(4) 2149-2154 (Apr 1999), 9A339
Discrete wave number transform approach for predicting pressure levels due to a line source radiating over 2D multi-layered materials, Appl Acoust **58**(2) 173-194 (Oct 1999), 9A340
Direct and inverse problems of wave propagation through a 1D inhomogeneous medium, European J Appl Math **10**(1) 79-96 (Feb 1999), 10A256
Beam bundle in a compressible inviscid fluid, J Appl Mech **66**(2) 546-548 (Jun 1999), 10A336
Transmission of sound through an inhomogeneous anisotropic layer adjoining viscous liquids, J Appl Math Mech **62**(6) 953-958 (1999), 10A337
Ultrasonic waves in saturated porous materials: Discussion of modeling and experimental results, J Theor Appl Mech **36**(3) 597-618 (1998), 10A338
High-resolution finite-volume methods for acoustic waves in periodic and random media, J Acoust Soc Am **106**(1) 17-28 (Jul 1999), 12A284
Parameter uncertainty analysis on acoustic response in fluid filled poroelastic media, J Acoust Soc Am **106**(1) 151-163 (Jul 1999), 12A285
Sound scattering cross-section in a stratified moving atmosphere, J Acoust Soc Am **105**(6) 3115-3125 (Jun 1999), 12A286
Surface waves over bead layers, J Acoust Soc Am **105**(6) 3021-3025 (Jun 1999), 12A287
Wavefront and group velocity in relaxing and bubbly fluids, J Acoust Soc Am **105**(6) 3044-3048 (Jun 1999), 12A288
Acoustic waves in channels with porous and permeable walls, Transport Porous Media **35**(3) 327-344 (Jun 1999), 12A1500

172H. Reflection, refraction, diffraction, and scattering

Acoustic scattering problem for periodic, inhomogeneous media, Math Methods Appl Sci **21**(10) 969-983 (Jul 1998), 1A315
Examination of the 2D pupil function in coherent scanning microscopes using spherical particles, J Acoust Soc Am **104**(1) 181-191 (Jul 1998), 1A316
Scattering of waves by thin periodic layers at high frequencies using the on-surface radiation condition method, IMA J Appl Math **60**(2) 199-214 (Apr 1998), 1A317
Acoustic scattering by a partially buried 3D elastic obstacle, J Acoust Soc Am **104**(2-PT1) 769-782 (Aug 1998), 2A389
Boundary effect on a parametrically excited soliton, J Acoust Soc Am **104**(2-PT1) 715-721 (Aug 1998), 2A390
Condenser microphone model - I: Application of the T-matrix method of Waterman to acoustic scattering from an elastic obstacle, J Acoust Soc Am **104**(2-PT1) 907-914 (Aug 1998), 2A391
Diffraction of acoustic waves by a semi-infinite cylindrical impedance pipe of certain wall thickness, J Eng Math **33**(4) 333-352 (May 1998), 2A392
Extracting in-plane bistatic scattering information from a monostatic experiment, J Acoust Soc Am **104**(2-PT1) 758-768 (Aug 1998), 2A393
Ground effect over hard rough surfaces, J Acoust Soc Am **104**(3-PT1) 1474-1482 (Sep 1998), 2A394
Inverse obstacle transmission problem in acoustics, Inverse Prob **14**(4) 903-929 (Aug 1998), 2A395
Landweber iteration applied to inverse conductive scattering problems, Inverse Prob **14**(4) 931-947 (Aug 1998), 2A396
Measurements of macrosonic standing waves in oscillating closed cavities, J Acoust Soc Am **104**(2-PT1) 623-636 (Aug 1998), 2A397
Near-field ultrasonic scattering from a cavity in steel considering the velocity amplitude on the transducer face using an error function model, J Acoust Soc Am **104**(3-PT1) 1242-1245 (Sep 1998), 2A398
Numeric study of limited diffraction, bandlimited, acoustic waves: A novel solution family of the homogeneous scalar wave equation, Wave Motion **28**(3) 203-213 (Oct 1998), 2A399
Numerical and experimental study of finite-amplitude standing waves in a tube at high sonic frequencies, J Acoust Soc Am **104**(2-PT1) 708-714 (Aug 1998), 2A400
Radiation of a point source inside the elastic hollow cylinder immersed in acoustical medium: General Solution and computation algorithm (Russian), Prikl Mekh (Appl Mech) **33**(5) 20-29 (1998), 2A401
Reconstruction of an obstacle from the scattering amplitude at a fixed frequency, Inverse Prob **14**(4) 949-954 (Aug 1998), 2A402
Reflection of a spherical sound wave by an infinite elastic plate driven to vibration by a point force, Appl Acoust **55**(4) 253-273 (Dec 1998), 2A403
Separation of interfering acoustic scattered signals using the invariants of the time-reversal operator: Application to Lamb waves characterization, J Acoust Soc Am **104**(2-PT1) 801-807 (Aug 1998), 2A404
Sound propagation from a point source over extended-reaction ground, J Acoust Soc Am **104**(2-PT1) 679-685 (Aug 1998), 2A405
Study of the point source within the hollow cylinder placed in the acoustic medium properties of normal waves and radiation direction (Russian), Prikl Mekh (Appl Mech) **34**(5) 12-23 (1998), 2T406
Sub-bottom scattering: A modeling approach, J Acoust Soc Am **104**(3-PT1) 1363-1373 (Sep 1998), 2A407
Trapped modes in acoustic waveguides, Quart J Mech Appl Math **51**(3) 477-492 (Aug 1998), 2A408
Trapped modes in cylindrical waveguides, Quart J Mech Appl Math **51**(3) 389-412 (Aug 1998), 2A409
Ultrasonic interferences in polymer plates, J Acoust Soc Am **104**(3-PT1) 1232-1241 (Sep 1998), 2A410
Multichannel resonant scattering theory applied to the acoustic scattering by an eccentric elastic cylindrical shell immersed in a fluid, Wave Motion **28**(4) 297-318 (Dec 1998), 3A230
Boundary element method for acoustic scattering in fluid-fluidlike and fluid-solid problems, J Sound Vib **216**(3) 413-434 (Sep 1998), 3A305
Diffraction from simple shapes by a hybrid asymptotic-FEM, J Acoust Soc Am **104**(4) 1964-1972 (Oct 1998), 3A306
Diffraction of sound in a stratified moving atmosphere above an impedance plane, Acustica **84**(4) 607-615 (Jul-Aug 1998), 3A307
Investigation of the second field of the summarized frequency originated from scattering of nonlinearly interacting sound waves at a rigid sphere, J Sound Vib **216**(1) 194-197 (Sep 1998), 3T308
Local sound field reproduction using two closely spaced loudspeakers, J Acoust Soc Am **104**(4) 1973-1981 (Oct 1998), 3A309
Soft and the hard coated sphere within a point source wave field, J Acoust Soc Am **104**(4) 1929-1942 (Oct 1998), 3A310
Sound attenuation in marine sediments, Acustica **84**(4) 621-627 (Jul-Aug 1998), 3A311
Theory of self-protected surfaces, J Sound Vib **216**(3) 347-359 (Sep 1998), 3A312
Uniqueness theorem for an inverse scattering problem in an exterior domain, SIAM J Math Anal **29**(5) 1118-1128 (Sep 1998), 3A313
Acoustic characterization of fractal crack surface, Physica D **122**(1-4) 155-160 (Nov 1998), 3A861
Mean flow refraction effects on sound radiated from localized sources in a jet, J Fluid Mech **370** 149-174 (Sep 1998), 4A297
Boundary-variation solutions for bounded-obstacle scattering problems in 3D, J Acoust Soc Am **104**(5) 2579-2583 (Nov 1998), 4A305
Insertion loss of screens under the influence of wind, J Acoust Soc Am **104**(5) 2692-2698 (Nov 1998), 4A306
Inverse Neumann obstacle problem, J Acoust Soc Am **104**(5) 2615-2621 (Nov 1998), 4A307
Numerical study of the interaction between a flow and a sound wave: Case of the Von-Karman vortex street, Acoust Lett **21**(3) 42-50 (Sep 1997), 4A308
Scattering by a barrier in a room, Appl Acoust **56**(1) 1-24 (Jan 1999), 4A309
Spring model for the simulation of the propagation of ultrasonic pulses through imperfect contact interfaces, J Acoust Soc Am **104**(5) 2584-2591 (Nov 1998), 4A310
Efficient tool for multi-frequency analysis in acoustic scattering or radiation by BEM, Acustica **84**(5) 884-893 (Sep-Oct 1998), 5A57
Acoustic scattering by an inhomogeneous layer on a rigid plate, SIAM J Appl Math **58**(6) 1931-1950 (Dec 1998), 5A284
Benchmark solutions of plane wave bottom reflection loss, J Acoust Soc Am **104**(6) 3305-3312 (Dec 1998), 5A285
Efficiency of a monopole sound source in the vicinity of an elastically suspended, baffled disk, J Acoust Soc Am **104**(6) 3245-3250 (Dec 1998), 5A286
Modeling of scattering by objects on the seabed, J Acoust Soc Am **104**(6) 3296-3304 (Dec 1998), 5A287
Resonant scattering by two elastic cylindrical shells, Acustica **84**(5) 980-986 (Sep-Oct 1998), 5A288
Scattering of stable and unstable waves in a flow duct, Quart J Mech Appl Math **51**(4) 599-632 (Nov 1998), 5A289
Transient diffraction of a plane step pressure pulse by a hard sphere: Neoclassical solution, J Acoust Soc Am **104**(6) 3236-3244 (Dec 1998), 5A290
Uniqueness result for scattering by infinite rough surfaces, SIAM J Appl Math **58**(6) 1774-1790 (Dec 1998), 5A291
Accurate barrier modeling in the presence of atmospheric effects, Appl Acoust **56**(3) 157-182 (Mar 1999), 5A304
Reflection and transmission of structural waves at an interface between doubly curved shells, Acustica **84**(6) 1066-1076 (Nov-Dec 1998), 6A215
Moving point source in a range-dependent environment with fluid flow, Acoust Lett **21**(4) 69-75 (Oct 1997), 6A293
Acoustic radiation from a vortex approaching a circular cylinder with surface suction, Acustica **84**(6) 1007-1013 (Nov-Dec 1998), 6A299
Complete family of functions methods, based on the Rayleigh hypothesis and on the extinction theorem, for inverse acoustic wave scattering problems, Acustica **84**(6) 1083-1090 (Nov-Dec 1998), 6A300
New rough surface parabolic equation program for computing low-frequency acoustic forward scattering from the ocean surface, J Acoust Soc Am **105**(1) 144-153 (Jan 1999), 6A301
Point source method for inverse acoustic and electromagnetic obstacle scattering problems, IMA J Appl Math **61**(2) 119-140 (Oct 1998), 6A302
Resistive coated sphere in the presence of a point generated wave field, Math Methods Appl Sci **22**(1) 73-90 (Jan 1999), 6A303
Resonant phenomena in bulk-wave scattering by in-plane periodic cracks, J Acoust Soc Am **105**(1) 84-92 (Jan 1999), 6A304
Rigorous solutions of acoustic wave diffraction by penetrable wedges, J Acoust Soc Am **105**(1) 74-83 (Jan 1999), 6A305
Scattering at rigid building corners, J Sound Vib **219**(1) 105-132 (Jan 1999), 6A306
Scattering from rigid and soft targets near a planar boundary: Numerical results, J Acoust Soc Am **105**(1) 130-143 (Jan 1999), 6A307
Scattering of electromagnetic waves from arbitrary shaped bodies coated with a chiral material, Smart Mat Struct 7(6) 851-866 (Dec 1998), 6A308
Acoustic properties of a cavity backed stage floor: A theoretical model, Appl Acoust **57**(1) 17-27 (May 1999), 7A293
Effect of an air-back cavity on the sound field reflected by a vibrating plate, Appl Acoust **56**(4) 241-256 (Apr 1999), 7A294
Impact of refraction on train noise, Appl Acoust **57**(3) 279-287 (Jul 1999), 7A295
Improvement of corner shielding by an absorbing cylinder, J Sound Vib **219**(4) 559-579 (Jan 1999), 7A296
Pulse propagation of acoustic waves scattered in a channel, Waves in Random Media **9**(1) 1-11 (Jan 1999), 7A297
Reverberation in waveguides with rough surfaces, J Acoust Soc Am **105**(2) 672-686 (Feb 1999), 7A298
Scattering at a corner with absorbing flanks and an absorbing cylinder, J Sound Vib **219**(4) 581-601 (Jan 1999), 7A299
Scattering of a spherical wave by a thin hard strip, J Sound Vib **219**(5) 837-857 (Feb 1999), 7A300
Scattering of a TM plane wave from periodic random surfaces, Waves in Random Media **9**(1) 53-67 (Jan 1999), 7A301
Sound field in long rooms with diffusely reflecting boundaries, Appl Acoust **56**(4) 217-240 (Apr 1999), 7A302
New analytical method for the calculation of outdoor noise propagation, Appl Acoust **57**(2) 109-127 (Jun 1999), 7A319
Influence of the presence of an elastic shell in shallow water: Theoretical and experimental study, Acustica **85**(1) 24-30 (Jan-Feb 1999), 8A309
Acoustic reflection of an elastic plate with periodic ribs and a back cavity, Acoust Lett **21**(6) 1-11 (Dec 1997), 8A318
Direct inverse scattering method for imaging obstacles with unknown surface conditions, IMA J Appl Math **61**(3) 267-290 (Dec 1998), 8A319
Half space scattering problems at low frequencies, IMA J Appl Math **62**(1) 61-79 (Feb 1999), 8A320
Theory of the backscattering of sound by phase-matched nonlinear interaction, J Acoust Soc Am **105**(3) 1584-1591 (Mar 1999), 8A321
Ultrasound scattering from a turbulent round thermal pure plume, Exp Thermal Fluid Sci **18**(4) 271-281 (Dec 1998), 8T322
Wiener-Hopf solution of a class of mixed boundary value problems arising in surface water wave phenomena, Wave Motion **29**(3) 267-292 (Apr 1999), 8A323
T-matrix perturbation formalism for scattering from a rough fluid-elastic interface, J Sound Vib **221**(5) 751-783 (Apr 1999), 9A304
Application of a series-line acoustic resonator to measurements, JSME Int J Ser C **41**(4) 798-805 (Dec 1998), 9A327
Inversion method of sound pulse propagation to determine sound speed stratification in shallow water, Acustica **85**(2) 203-212 (Mar-Apr 1999), 9A333
Algebraic aspects of multiple scattering by two parallel cylinders: Classification and physical interpretation of scattering resonances, J Sound Vib **221**(5) 785-804 (Apr 1999), 9A341
Azimuthal dependence of Bragg scattering from the ocean surface, J Acoust Soc Am **105**(4) 2129-2141 (Apr 1999), 9A342
Bistatic sea surface scattering: Field measurements and modeling, J Acoust Soc Am **105**(4) 2155-2169 (Apr 1999), 9A343
Impulse response of a density contrast wedge: Practical implementation and some aspects of its diffracted component, Appl Acoust **58**(2) 195-210 (Oct 1999), 9A344
Inverse obstacle scattering using reduced data, SIAM J Appl Math **59**(2) 442-454 (Nov 1998), 9A345
Matrix theory of elastic resonance scattering and its application to fluid-filled cavities, Acustica **85**(2) 170-180 (Mar-Apr 1999), 9A346
Acoustic scattering from semi-infinite, rigid plates: A new technique, Quart J Mech Appl Math **52**(2) 183-210 (May 1999), 10A339
Cylindrical wave diffraction by an absorbing strip, Arch Acoust **23**(3) 391-401 (1998), 10A340
Edge diffraction in a multireflective environment: Measured and calculated insertion loss of a retained cut, Noise Control Eng J **47**(1) 8-16 (Jan-Feb 1999), 10A341
Factorization of the far-field operator for the inhomogeneous medium case and an application in inverse

scattering theory, Inverse Prob **15**(2) 413-429 (Apr 1999), 10A342
Orthogonality relation for a class of problems with high-order boundary conditions: Applications in sound-structure interaction, Quart J Mech Appl Math **52**(2) 161-181 (May 1999), 10A343
Droplet's response to acoustic excitation, Int J Multiphase Flow **25**(3) 531-550 (Apr 1999), 10A1172
Scattering of acoustic waves by a vortex, J Fluid Mech **386** 305-328 (May 1999), 11A314
Direct and inverse scattering for point source fields: The penetrable small sphere, Z Angew Math Mech **79**(5) 303-316 (1999), 11A319
Estimation of scattered sound field via nearfield measurement by source methods, Appl Acoust **58**(3) 261-281 (Nov 1999), 11A320
Modeling of scattering by partially buried elastic cylinders, J Acoust Soc Am **105**(5) 2628-2633 (May 1999), 11A321
Multimode radiation from an unflanged, semi-infinite circular duct, J Acoust Soc Am **105**(5) 2590-2600 (May 1999), 11A322
Prediction of reverberation time using neural network analysis, Appl Acoust **58**(3) 305-325 (Nov 1999), 11A323
Scattering of a spherical wave by a small ellipsoid, IMA J Appl Math **62**(2) 117-136 (Apr 1999), 11A324
Third-order BEM for exterior acoustics with applications to scattering by rigid and elastic shells, J Sound Vib **222**(5) 699-722 (May 1999), 11A325
Diffracted acoustic fields about circular apertures in soft and hard baffles, Acustica **85**(3) 301-311 (May-Jun 1999), 12A69
Arccos and Lommel formulations: Approximate closed-form diffraction corrections, J Acoust Soc Am **105**(6) 3067-3077 (Jun 1999), 12A289
Computation of transient acoustic scattering from submerged elastic sphere in time domain (Chinese), J Shanghai Jiaotong Univ **33**(3) 354-356 (Mar 1999), 12A290
Diffraction of an acoustic plane wave by a rectangular hole in an infinitely large rigid screen, J Acoust Soc Am **106**(1) 29-35 (Jul 1999), 12A291
Directivity of a uniform-strength, continuous circular-arc source phased to the spatial position of its diameter, J Acoust Soc Am **105**(6) 3078-3082 (Jun 1999), 12A292
High-frequency asymptotics in diffraction by finite-length waveguides: Open structures, J Eng Math **35**(4) 427-436 (May 1999), 12A293
Modeling acousto-elastic waveguide-object scattering with the Rayleigh hypothesis, J Acoust Soc Am **106**(1) 164-168 (Jul 1999), 12A294
New theoretical approach to the analysis of nonlinear sound beams using the oblate spheroidal coordinate system, J Acoust Soc Am **105**(6) 3083-3086 (Jun 1999), 12A295
Sound propagation over a barrier with realistic wind gradients. Comparison of wind tunnel experiments with GFPE computations, Acustica **85**(3) 325-335 (May-Jun 1999), 12A296
Sound radiation from a line forced perforated elastic sandwich panel, J Acoust Soc Am **105**(6) 3009-3020 (Jun 1999), 12A297
Time-evolution modeling of seafloor scatter - I: Concept, J Acoust Soc Am **105**(6) 3136-3141 (Jun 1999), 12A298
Time-evolution modeling of seafloor scatter - II: Numerical and experimental evaluation, J Acoust Soc Am **105**(6) 3142-3150 (Jun 1999), 12A299
Vortical and acoustical mode coupling inside a 2D cavity with transpiring walls, J Acoust Soc Am **106**(1) 46-56 (Jul 1999), 12A300

172I. Acoustic properties of materials

Frequency-independent acoustic Q-factor of microinhomogeneous solids, Acoust Lett **21**(1) 11-15 (Jul 1997), 2A411
Pade approximants for the acoustical properties of rigid frame porous media with pore size distributions, J Acoust Soc Am **104**(3-PT1) 1198-1209 (Sep 1998), 2A412
Studies on ultrasonic velocity, conductance, density and viscosity of lanthanum (III) chloride in the dextrose-water mixed solvent system, Acoust Lett **20**(12) 260-265 (Jun 1997), 2A413
Acoustic absorption of porous surfacing with dual porosity, Int J Solids Struct **35**(34-35) 4709-4737 (Dec 1998), 3A314
Comments on the prediction of the acoustic impedance in particle-polymer composites, Acoust Lett **21**(2) 26-29 (Aug 1997), 3A315
Acoustical and mechanical characterization of anisotropic open-cell foams, J Acoust Soc Am **104**(5) 2622-2627 (Nov 1998), 4A311
Hill-type ultrasonic relaxation spectra of liquids, J Acoust Soc Am **104**(5) 2741-2749 (Nov 1998), 4A312
Prediction of the bulk acoustic properties of fibrous materials at low frequencies, Appl Acoust **56**(2) 101-125 (Feb 1999), 5A292
Acoustic absorption in recycled rubber granulate, Appl Acoust **57**(3) 203-212 (Jul 1999), 7A303
Measurement of frame motion in flexible porous materials, J Acoust Soc Am **105**(2) 755-761 (Feb 1999), 7A304
Optimization of the acoustical absorption characteristics of an enclosure, Appl Acoust **57**(2) 139-162 (Jun 1999), 7A305
Phenomenological theory of the translational relaxation times in gases, J Acoust Soc Am **105**(4) 2210-2215 (Apr 1999), 9A347
Study of the acoustical properties of compound impedance in sound absorbing structure, J Huazhong Univ Sci Tech **27**(1) 53-55 (Jan 1999), 9A348
Numerical decouping analysis of a resonator with absorbent material, Appl Acoust **58**(2) 109-122 (Oct 1999), 9A369
Dynamic stiffness as an acoustic specification parameter for wall ties used in masonry cavity walls, Appl Acoust **58**(1) 51-68 (Sep 1999), 9A375
Measurement of the nonlinear behavior of acoustical rigid porous materials, Phys Fluids **11**(6) 1342-1345 (Jun 1999), 11A1074

172J. Noise control and reduction (incl active control)

Case history: Computation of normalized dynamic mesh force and transmissibility spectra for vibro-acoustic control of roots-type supercharger systems, Noise Control Eng J **46**(3) 120-131 (May-Jun 1998), 1A31
Active control of the structural and acoustic responses of a fluid-loaded plate - Part I: Analysis of the physical system, J Low Frequency Noise Vib **17**(1) 11-25 (1998), 1A278
Active noise control algorithm for controlling multiple sinusoids, J Acoust Soc Am **104**(1) 248-254 (Jul 1998), 1A318
Adaptive feedforward and feedback methods for active-passive sound radiation control using smart foam, J Acoust Soc Am **104**(1) 226-231 (Jul 1998), 1A319
Determination of acoustic center correction values for type LS2aP microphones at normal incidence, J Acoust Soc Am **104**(1) 192-203 (Jul 1998), 1A320
Evaluation of several analytical methods on muffler acoustic modeling, Noise Control Eng J **46**(3) 109-119 (May-Jun 1998), 1A321
Ground influence on the definition of single rating index for noise barrier protection, J Acoust Soc Am **104**(1) 232-236 (Jul 1998), 1A322
Image filtering for noise reduction based on fractal dimension, Machine Graphics & Vision **6**(3) 353-361 (1997), 1T323
Methodology of noise reduction of an air conditioning system (French), Rev Francaise Mec **0**(2) 107-114 (Jun 1998), 1A324
Plant uncertainty analysis in a duct active noise control problem by using the H_∞ theory, J Acoust Soc Am **104**(1) 237-247 (Jul 1998), 1A325
Prediction of radiated noise from machine components using the BEM and the Rayleigh integral, Noise Control Eng J **46**(3) 77-82 (May-Jun 1998), 1A326
Relations among interaural cross-correlation coefficient ($IACC_E$), lateral fraction (LF_E), and apparent source width (ASW) in concert halls, J Acoust Soc Am **104**(1) 255-265 (Jul 1998), 1A327
Sound absorption by an orifice plate in a flow duct, J Acoust Soc Am **104**(1) 122-132 (Jul 1998), 1A328
Theoretical and experimental analysis of the band noise radiated from a hard-walled cylindrical duct, Arch Acoust **22**(4) 397-410 (1997), 1A329
Hilbert transform approach in source identification via multiple-input single-output modeling for correlated inputs, Mech Syst Signal Processing **12**(4) 501-513 (Jul 1998), 1T349
Aeroacoustic and Active Noise Control (AIAA, Reston, VA, 1997) 2N6
Analysis of acoustic emissions from a steel bridge hanger, Res Nondestructive Eval **10**(3) 123-145 (1998), 2A366
Active acoustic control of noise transmission through double walls: Effect of mechanical paths, J Sound Vib **215**(2) 395-398 (Aug 1998), 2T414
Active noise cancellation for a 3D enclosure by using multiple-channel adaptive control and H_∞ control, J Vib Acoust **120**(4) 958-964 (Oct 1998), 2A415
Comparison of near-field acoustic error sensing strategies for the active control of harmonic free field sound radiation, J Sound Vib **215**(1) 81-103 (Aug 1998), 2A416
Dissipative feedback control of a reverberant enclosure using a constant volume velocity source, J Vib Acoust **120**(4) 987-993 (Oct 1998), 2A417
Energy-time relations in a room with an electroacoustic system, J Acoust Soc Am **104**(3-PT1) 1483-1490 (Sep 1998), 2A418
Evaluation of an actuator placement method for active noise control applications, J Vib Acoust **120**(4) 875-879 (Oct 1998), 2A419
Experimental studies of shallow spherical shell piezoceramic actuators as acoustic boundary control elements, Smart Mat Struct **7**(4) 467-471 (Aug 1998), 2A420
Influence of nozzle geometry on the noise of high-speed jets, AIAA J **36**(8) 1396-1400 (Aug 1998), 2A421
Noise control of engine driven portable generator sets, Appl Acoust **55**(4) 307-328 (Dec 1998), 2A422
Novel boundary integral formulation for 3D analysis of thin acoustic barriers over an impedance plane, J Acoust Soc Am **104**(2-PT1) 671-678 (Aug 1998), 2A423
Orthogonal acoustical factors of sound fields in a forest compared with those in a concert hall, J Acoust Soc Am **104**(3-PT1) 1491-1497 (Sep 1998), 2A424
Passive design for reduction of high-speed impulsive rotor noise, J Am Helicopter Soc **43**(3) 222-234 (Jul 1998), 2A425
Theoretical and application study on a double layer microperforated sound absorption structure, J Sound Vib **215**(3) 399-405 (Aug 1998), 2A426
Tiltrotor vibration reduction through higher harmonic control, J Am Helicopter Soc **43**(3) 235-245 (Jul 1998), 2A427
Optimal design and noise consideration of micromachined vibrating rate gyroscope with modulated integrative differential optical sensing, J Microelectromechanical Syst **7**(3) 329-338 (Sep 1998), 2A548
Active noise control inside a discontinuity of rectangular ducts: Application to right-angled junctions, Acustica **84**(4) 643-657 (Jul-Aug 1998), 3A316
Boundary integral equation method for evaluating the performance of straight-through resonator with mean flow, J Sound Vib **216**(2) 281-294 (Sep 1998), 3A317
Broadening the frequency range of panel absorbers by adding an inner microperforated layer, Acoust Lett **21**(2) 20-24 (Aug 1997), 3A318
Efficiency and stability of a novel active silencer (German), Acustica **84**(4) 658-667 (Jul-Aug 1998), 3A319
Efficiency of a noise barrier on the ground with an acoustically soft cylindrical edge, J Sound Vib **216**(5) 771-790 (Oct 1998), 3A320
Fuzzy neural systems for controlling sound localization in stereophonic reproduction, IEE Proc Control Theory Appl **145**(4) 393-401 (Jul 1998), 3A321
Influence of frequency-shaped cost functionals on the structural acoustic control performance of static, output feedback controllers, J Acoust Soc Am **104**(4) 2236-2244 (Oct 1998), 3A322
Influence of uneven blade spacing on the SPL and noise spectra radiated from radial fans, J Sound Vib **216**(4) 697-711 (Oct 1998), 3A323
L-, T-, and cross-joints of lined ducts, J Sound Vib **216**(5) 809-849 (Oct 1998), 3A324
Method to reduce noise in hydraulic systems by optimizing pipe clamp locations, J Syst Control Eng **212**(I4) 267-280 (1998), 3A325
Numerical studies of acoustic boundary control for interior sound suppression, J Acoust Soc Am **104**(4) 2227-2235 (Oct 1998), 3A326
Optimization of Adaptive Active Noise Control system with directional sources by genetic algorithm (Chinese), J Vib Eng **11**(3) 273-280 (Sep 1998), 3T327
Simulation approach and causality evaluation for an active noise control system, IEE Proc Control Theory Appl **145**(4) 423-426 (Jul 1998), 3T328
Sound power minimization of circular plates through damping layer placement, J Sound Vib **215**(5) 1145-1163 (Sep 1998), 3A329
Structural-acoustic control for quieter aircraft interior-Smart Trim technology, Composite Struct **42**(2) 189-202 (Jun 1998), 3A330
Vibroacoustics of cylindrical pipes: Internal radiation modal coupling, J Sound Vib **215**(5) 1165-1179 (Sep 1998), 3A331
Acoustic attenuation performance of circular flow-reversing chambers, J Acoust Soc Am **104**(5) 2867-2877 (Nov 1998), 4A313
Active control of sound transmission through a double-leaf partition by volume velocity cancellation, J Acoust Soc Am **104**(5) 2827-2835 (Nov 1998), 4A314
Active control of sound transmission using structural error sensing, J Acoust Soc Am **104**(5) 2878-2889 (Nov 1998), 4A315
Compensated acoustic actuator for systems with strong dynamic pressure coupling, J Vib Acoust **121**(1) 89-94 (Jan 1999), 4A316
Development and implementation of a semi-adaptive H_∞ active control algorithm for duct noise, J Vib Acoust **121**(1) 123-125 (Jan 1999), 4A317
Influence of shape and absorbing surface: A numerical study of railway noise barriers, J Sound Vib **217**(3) 405-417 (Oct 1998), 4A318
Modal technique for active control of tones radiated from a ducted fan, J Aircraft **35**(5) 754-760 (Sep-Oct 1998), 4A319
Noise control of a master harmonic oscillator coupled to a set of satellite harmonic oscillators, J Acoust Soc Am **104**(5) 2628-2637 (Nov 1998), 4A320
Nonlinear ANC based on RBF neural networks (Chinese), J Shanghai Jiaotong Univ **32**(7) 63-65 (Jul 1998), 4A321
Operational tests of noise abatement approaches for rotorcraft using differential GPS for guidance, J Am Helicopter Soc **43**(4) 352-359 (Oct 1998), 4A322
Potential of microperforated panel absorber, J Acoust Soc Am **104**(5) 2861-2866 (Nov 1998), 4A323
Sound insertion loss of stiffened enclosure plates using the FEM and the classical approach, J Sound Vib **217**(2) 239-260 (Oct 1998), 4A324
Use of modal tailoring to minimize the radiated sound power to vibrating shells: Theory and experiment, J Sound Vib **217**(2) 335-350 (Oct 1998), 4A325
Combined feedback-feedforward active control of sound in a room, J Acoust Soc Am **104**(6) 3417-3425 (Dec 1998), 5A293
Control of flow-induced noise behind a circular cylinder using splitter plates, AIAA J **36**(11) 1961-1967 (Nov 1998), 5A294
Discrete orthogonal wavelet packets and its application to reducing noise (Chinese), J Beijing IT **18**(1) 70-74 (Feb 1998), 5A295
Evaluation of monitoring blast vibration on residents (Japanese), Proc JSCE **602**(VI-40) 7-19 (Sep 1998), 5T296
Impedance of perforated plates subjected to grazing gas flow and backed by porous media, J Sound Vib **217**(4) 619-636 (Nov 1998), 5A297
Increasing the insertion loss of noise barriers using an active-control system, J Acoust Soc Am **104**(6) 3408-3416 (Dec 1998), 5A298
Minimum attenuation guaranteed by an active noise control system in presence of errors in the spatial distribution of the primary field, J Sound Vib **217**(5) 827-852 (Nov 1998), 5A299
Mixer-ejector noise-suppressor model, J Propulsion Power **14**(6) 941-950 (Nov-Dec 1998), 5A300
Model-based self-tuning controler for thermoacoustic instability, Combust Sci Tech **135**(1-6) 213-240 (Jun 1998), 5A301
Noise control of a two stroke engine car, J Beijing IT **7**(2) 203-209 (Jun 1998), 5A302
Sound absorption in concert halls by seats, occupied and unoccupied, and by the hall's interior surfaces, J Acoust Soc Am **104**(6) 3169-3177 (Dec 1998), 5A303
Dynamics, Acoustics and Simulations - 1998 (ASME, New York, 1998) 6N8
Vibration and Noise Control - 1998 (ASME, New York, 1998) 6N10
Active control of the structural and acoustic responses of a fluid-loaded plate - Part II: Feedforward control, J Low Frequency Noise Vib **17**(2) 99-115 (1998), 6A309
Anisotropic effects of polyvinylidene fluoride on the control of transmitted sound fields through a composite plate, Smart Mat Struct **7**(6) 885-893 (Dec 1998), 6A310
Control of sound transmission through thin plate, J Sound Vib **218**(4) 605-618 (Dec 1998), 6A311
Noise control of domestic facilities, Int J Japan Soc Precision Eng **32**(3) 166-170 (Sep 1998), 6T312
Optimum design for controller of compound active noise cancellation earmuff (Chinese), J Tsinghua Univ Sci Tech **38**(8) 92-95 (Aug 1998), 6A313
Perforated muffler manifold catalyst, J Sound Vib **218**(4) 711-734 (Dec 1998), 6A314
Sonic stop-bands for periodic arrays of metallic rods: Honeycomb structure, J Sound Vib **218**(4) 697-709 (Dec 1998), 6A315
Sound propagation over noise barriers with absorbing ground, J Sound Vib **218**(5) 799-823 (Dec 1998), 6A316
Study on mechanisms and sound absorption of active element, J Vib Eng **11**(4) 402-409 (Dec 1998), 6T317
Traveling wave approach to active noise control in ducts, J Sound Vib **219**(2) 307-321 (Jan 1999), 6A318
Optimization of the acoustical absorption characteristics of an enclosure, Appl Acoust **57**(2) 139-162 (Jun 1999), 7A305
Active control of sound radiation from a rectangular plate excited by a line moment, J Sound Vib **220**(1) 99-115 (Feb 1999), 7A306
Active control of sound radiation from rectangular plates using multiple piezoelectric actuators, Appl Acoust **57**(4) 327-343 (Aug 1999), 7A307
Active noise control in large circular duct using an error sensors plane, Appl Acoust **57**(4) 357-374 (Aug 1999), 7A308
Comparison of open-loop feedforward and closed-loop methods for active noise control using volume velocity minimization, Appl Acoust **57**(1) 29-37 (May 1999), 7A309
Development of a frequency-domain filtered-x intensity ANC algorithm, Appl Acoust **57**(1) 39-49 (May 1999), 7A310
Electropneumatic transducers as secondary actuators for active noise control - Part I: Theoretical analyses, J Sound Vib **219**(3) 405-427 (Jan 1999), 7A311
Electropneumatic transducers as secondary actuators for active noise control - Part II: Experimental analysis of the subsonic source, J Sound Vib **219**(3) 429-449 (Jan 1999), 7A312
Note on a generalization of Gauss least squares method applied to active noise reduction systems, J Sound Vib **219**(5) 925-926 (Feb 1999), 7T313

Piezoelectrically driven speakers for active aircraft interior noise suppression, Appl Acoust **57**(3) 263-277 (Jul 1999), 7A314
Practical use and verification tests of noise abatement due to absorptive devices at the top of highway noise barriers (Japanese), Proc JSCE **609**(VI41) 51-60 (Dec 1998), 7A315
Electropneumatic transducers as secondary actuators for active noise control - Part III: Experimental control in ducts with the subsonic source, J Sound Vib **219**(3) 451-481 (Jan 1999), 7A324
Active impedance control of linear 1D wave equations, Int J Control **72**(3) 247-257 (Feb 1999), 7T349
Influence of vortex models on blade-vortex interaction load and noise predictions, J Am Helicopter Soc **44**(1) 26-33 (Jan 1999), 7A1136
Theoretical and experimental study of pressure fluctuations in the passage of an axial compression stage: Application to the fan noise (French), Rev Francaise Mec **0**(4) 255-264 (Dec 1998), 7A1150
Active cancellation of acoustic pressure and particle velocity in the near field of a source, J Sound Vib **221**(1) 85-116 (Mar 1999), 8A324
Active control of environmental noise - III: Implementation of theory into practice, J Sound Vib **220**(3) 469-496 (Feb 1999), 8A325
Analysis of the mechanic property in the noise reduction technique used in cylinder of roller mills (Chinese), J Huazhong Univ Sci Tech **26**(12) 59-61 (Dec 1998), 8A326
Application of Quincke tubes to flow ducts as a sound attenuation device, Noise Control Eng J **46**(6) 245-255 (Nov-Dec 1998), 8A327
Control of aircraft interior broadband noise with foam-PVDF smart skin, J Sound Vib **220**(3) 541-557 (Feb 1999), 8A328
Control of low frequency structurally radiated noise with an array of weak radiating cells: An experimental study, J Intelligent Mat Syst Struct **9**(4) 260-271 (Apr 1998), 8A329
H_∞ control of structure-borne noise of a plate featuring piezoceramic actuators, Smart Mat Struct **8**(1) 1-12 (Feb 1999), 8A330
Modal formulation and adaptive-passive control of the nonself-adjoint 1D acoustic system with a mass-spring termination, J Appl Mech **66**(1) 242-249 (Mar 1999), 8A331
Principle of sound field control based on the Kirchhoff-Helmholtz integral equation and the theory of inverse systems, Acustica **85**(1) 78-87 (Jan-Feb 1999), 8A332
Railway noise: Use of the Timoshenko model in rail vibration studies, Acustica **85**(1) 54-62 (Jan-Feb 1999), 8A333
Texturing of cement concrete pavements to reduce traffic noise, Noise Control Eng J **46**(6) 231-243 (Nov-Dec 1998), 8A334
Unidirectional JMC actuators in the active attenuation of noise in ducts, Acustica **85**(1) 63-77 (Jan-Feb 1999), 8A335
Optimal placement of a proof mass actuator for active structural acoustic control, Mech Struct Machines **27**(1) 23-35 (1999), 8A834
Study on active forces control of structure-borne sound in enclosed space (Chinese), J Vib Eng **12**(1) 15-20 (Mar 1999), 9A321
Effects of counterflow on the aeroacoustic properties of a supersonic jet, J Aircraft **36**(2) 451-457 (Mar-Apr 1999), 9A323
Matrix theory of elastic resonance scattering and its application to fluid-filled cavities, Acustica **85**(2) 170-180 (Mar-Apr 1999), 9A346
Study of the acoustical properties of compound impedance in sound absorbing structure, J Huazhong Univ Sci Tech **27**(1) 53-55 (Jan 1999), 9A348
Active control of radiated duct noise with an insufficient number of sensors and actuators, J Sound Vib **221**(3) 351-369 (Apr 1999), 9A349
Active noise control with the active muffler in automotive exhaust systems, JSME Int J Ser C **41**(2) 178-183 (Jun 1998), 9A350
Actively created quiet zones for broadband noise using multiple control sources and error microphones, J Acoust Soc Am **105**(4) 2294-2303 (Apr 1999), 9A351
Analysis, testing, and control of a reverberant sound field within the fuselage of a business jet, J Acoust Soc Am **105**(4) 2277-2286 (Apr 1999), 9A352
Control of shear cutting noise: Effectiveness of enclosures, Appl Acoust **58**(1) 69-84 (Sep 1999), 9A353
Development of a muffler for control of noise pollution in a diesel engine, Proc Inst Mech Eng D **213**(D1) 83-90 (1999), 9A354
Effectiveness of screens in an urban area, Appl Acoust **58**(2) 153-172 (Oct 1999), 9A355
Experimental investigation of noise reduction in supersonic jets due to jet rotation, J Sound Vib **221**(3) 505-524 (Apr 1999), 9A356
High frequency ray acoustics models for duct silencers, J Sound Vib **221**(4) 681-708 (Apr 1999), 9A357
Implication of using remote sensors in active control of higher order acoustic duct modes, Appl Acoust **58**(1) 85-93 (Sep 1999), 9A358
Reduction of the performance of a noise screen due to screen-induced wind-speed gradients: Numerical computations and wind-tunnel experiments, J Acoust Soc Am **105**(4) 2287-2293 (Apr 1999), 9A359
Study of sound isolation panel with ventilation holes: Principle and transmission loss, JSME Int J Ser C **40**(4) 616-622 (Dec 1997), 9A360
Synthesis of optimal, single-frequency, passive control laws, with application to reducing the acoustic radiation from a submerged spherical shell, J Acoust Soc Am **105**(4) 2261-2268 (Apr 1999), 9A361
Detection of self-aligning roller bearing fault by asynchronous adaptive noise cancelling technology, JSME Int J Ser C **42**(1) 33-43 (Mar 1999), 9A494
Installation effects on fan acoustic and aerodynamic performance, Noise Control Eng J **47**(1) 3-7 (Jan-Feb 1999), 10A329
Acoustic method of determination of leakage coordinates in gas pipelines, Arch Acoust **23**(4) 533-539 (1998), 10A344
Active control of environmental noise - IV: Practical extensions to ECAS theory, J Sound Vib **222**(4) 635-668 (May 1999), 10A345
Active control of impulsive low frequency noise emitted from tunnel exit of high speed train, J Low Frequency Noise Vib **17**(3) 141-151 (1998), 10A346
Active control of sound radiation from cylinders with piezoelectric actuators and structural acoustic sensing, J Sound Vib **222**(3) 363-388 (May 1999), 10A347
Assessment of joint hazard to the outer environment from road and industrial noise by the example of the Katowice voivodeship, Arch Acoust **23**(3) 339-352 (1998), 10A348
Experimental investigations on noise attenuation of a twin cylinder stationary diesel engine with different types of mufflers, J Vib Acoust **121**(3) 351-354 (Jul 1999), 10A349
Finite element method and impulse response method analysis of circular ultrasonic transducers, Arch Acoust **23**(2) 291-305 (1998), 10A350
Graphical optimization of take-off noise abatement procedures for subsonic aircraft, J Sound Vib **222**(3) 489-501 (May 1999), 10A351
Helicopter rotor noise prediction using ONERA and DLR Euler-Kirchhoff methods, J Am Helicopter Soc **44**(2) 121-131 (Apr 1999), 10T352
Low-frequency aviation noise and noise attenuation of aviation headsets and helmets using active noise cancellation, J Low Frequency Noise Vib **17**(4) 191-197 (1998), 10T353
Shielding effectiveness in vehicle engine noise control, J Eng Appl Sci **45**(6) 959-976 (Dec 1998), 10A354
Sources of ambient noise in littoral waters, Arch Acoust **23**(2) 211-225 (1998), 10T355
Time cancellation of pure tones using autocoherent spectrum (French), Rev Francaise Mec **0**(1) 13-18 (Mar 1999), 10A356
Trial of evaluation based on multiplicative multivariate model for nonstationary road traffic noise, Arch Acoust **23**(2) 179-194 (1998), 10A357
Vertical distribution of road traffic noise, Arch Acoust **23**(4) 481-490 (1998), 10A358
Acoustic attenuation performance of circular expansion chambers with extended inlet-outlet, J Sound Vib **223**(2) 197-212 (Jun 1999), 11A326
Combined effects of porous asphalt surfacing and barriers on traffic noise, Appl Acoust **58**(3) 351-377 (Nov 1999), 11A327
IC Engine intake and exhaust noise assessment, J Sound Vib **223**(3) 425-444 (Jun 1999), 11A328
Multi-dimensional tesseral spatial reasoning for noise pollution modeling, Adv Eng Software **30**(7) 479-488 (Jul 1999), 11A329
Optimization method for noise control of elevated tracks with multi reflective noise (Japanese), Proc JSCE **616**(VI-42) 13-20 (Mar 1999), 11A330
Measurement of the nonlinear behavior of acoustical rigid porous materials, Phys Fluids **11**(6) 1342-1345 (Jun 1999), 11A1074
Active control of multiple tones in an enclosure, J Acoust Soc Am **106**(1) 211-225 (Jul 1999), 12A301
Active impedance control within a cylindrical waveguide for generation of low-frequency, underwater plane traveling waves, J Acoust Soc Am **105**(6) 3035-3043 (Jun 1999), 12A302
Efficiency of a noise barrier with an acoustically soft cylindrical edge for practical use, J Acoust Soc Am **105**(6) 3326-3335 (Jun 1999), 12A303
Exhaust pressure modeling for feedforward active control of internal combustion engine exhaust noise, Proc Inst Mech Eng D **213**(D2) 109-117 (1999), 12A304
Low frequency passive noise control of a piston structure with a weak radiating cell, J Acoust Soc Am **106**(1) 226-232 (Jul 1999), 12A305
Performance of some linear time-varying systems in control of acoustic feedback, J Acoust Soc Am **106**(1) 240-254 (Jul 1999), 12A306
Road traffic noise annoyance in relation to average noise level, number of events and maximum noise level, J Sound Vib **223**(5) 775-784 (Jun 1999), 12A307
Robust control of a sensorless bass-enhanced moving-coil loudspeaker system, J Acoust Soc Am **105**(6) 3283-3289 (Jun 1999), 12A308
Sound absorption of stretched ceilings with an impervious synthetic membrane, J Acoust Soc Am **106**(1) 233-239 (Jul 1999), 12A309

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Sensitivity calculations for structural-acoustic EFEM predictions, Noise Control Eng J **46**(3) 91-96 (May-Jun 1998), 1A36
Vibroacoustic behavior of an elastic box using state-of-the-art FEM-BEM approaches, Noise Control Eng J **46**(3) 83-90 (May-Jun 1998), 1A38
Technical note: Preliminary work for modeling the propellers of an aircraft as a noise source in an acoustic BE analysis, Noise Control Eng J **46**(3) 132-136 (May-Jun 1998), 1A68
Accuracy barrier for stable three-time-level difference schemes for hyperbolic equations, IMA J Numer Anal **18**(3) 445-484 (Jul 1998), 1A232
Evaluation of several analytical methods on muffler acoustic modeling, Noise Control Eng J **46**(3) 109-119 (May-Jun 1998), 1A321
Prediction of radiated noise from machine components using the BEM and the Rayleigh integral, Noise Control Eng J **46**(3) 77-82 (May-Jun 1998), 1A326
Absorbing boundary conditions, Appl Numer Math **27**(4) 331-557 (Aug 1998), 1A330
Diametral plane-wave analysis for short circular chambers with end offset inlet-outlet and side extended inlet-outlet, J Sound Vib **214**(3) 580-587 (Jul 1998), 1T331
High-resolution algorithm for complex spectrum search, J Acoust Soc Am **104**(1) 288-299 (Jul 1998), 1A332
Improved Green's function parabolic equation method for atmospheric sound propagation, J Acoust Soc Am **104**(1) 100-111 (Jul 1998), 1A333
Least-squares approximation for the delays used in focused beamforming, J Acoust Soc Am **104**(1) 171-175 (Jul 1998), 1A334
Linking auto- and cross-correlation functions with correlation equations: Application to estimating the relative travel times and amplitudes of multipath, J Acoust Soc Am **104**(1) 300-312 (Jul 1998), 1A335
Mean flow refraction corrections for the Kirchhoff method, J Aircraft **35**(4) 661-664 (Jul-Aug 1998), 1T336
Model of an acoustic source with discontinuous optimal elements, Arch Acoust **22**(4) 383-395 (1997), 1A337
Novel acceleration method for the variational BE approach based on multipole expansion, Int J Numer Methods Eng **42**(7) 1199-1214 (Aug 1998), 1A338
Numerical evaluation of the far-field directivity pattern using the fast Fourier transform, J Acoust Soc Am **104**(1) 72-80 (Jul 1998), 1A339
Robust multi-tonal matched-field inversion: A coherent approach, J Acoust Soc Am **104**(1) 163-170 (Jul 1998), 1A340
Time analysis of immersed waveguides using the FEM, J Acoust Soc Am **104**(1) 64-71 (Jul 1998), 1A341
Two-level FEM and its application to the Helmholtz equation, Int J Numer Methods Eng **43**(1) 23-32 (Sep 1998), 2A56
Adaptive BEM for acoustic scattering problems, J Theor Appl Mech **36**(2) 423-436 (1998), 2A91
Numeric study of limited diffraction, bandlimited, acoustic waves: A novel solution family of the homogeneous scalar wave equation, Wave Motion **28**(3) 203-213 (Oct 1998), 2A399
Acoustical finite-difference time-domain simulations of subwavelength geometries, J Acoust Soc Am **104**(3-PT1) 1171-1177 (Sep 1998), 2A428
Analytical comparison of the acoustic analogy and Kirchhoff formulation for moving surfaces, AIAA J **36**(8) 1379-1386 (Aug 1998), 2A429
Array element localization for horizontal arrays via Occam's inversion, J Acoust Soc Am **104**(2-PT1) 846-859 (Aug 1998), 2A430
Boundary element prediction of sound propagation in ducts containing bulk absorbing materials, J Vib Acoust **120**(4) 976-981 (Oct 1998), 2A431
Broadband self-noise from a ducted fan, AIAA J **36**(8) 1387-1395 (Aug 1998), 2A432
Complementary operators method applied to acoustic finite-difference time-domain simulations, J Acoust Soc Am **104**(2-PT1) 686-693 (Aug 1998), 2A433
Equivalent source technique for calculating the sound field inside an enclosure containing scattering objects, J Acoust Soc Am **104**(3-PT1) 1221-1231 (Sep 1998), 2A434
Finite element model for acoustic radiation, J Sound Vib **215**(3) 489-498 (Aug 1998), 2A435
Forward projection of transient signals obtained from a fiber-optic pressure sensor, J Acoust Soc Am **104**(3-PT1) 1266-1273 (Sep 1998), 2A436
High-frequency asymptotic description of head waves and boundary layers surrounding the critical rays in an elastic half space, J Acoust Soc Am **104**(3-PT1) 1188-1197 (Sep 1998), 2A437
Initial evaluation of the dominant mode rejection beamformer, J Acoust Soc Am **104**(3-PT1) 1331-1344 (Sep 1998), 2A438
Investigation of the near field of a loudspeaker using tomographic reconstruction from TV-holography measurements, J Acoust Soc Am **104**(3-PT1) 1503-1508 (Sep 1998), 2A439
Iterative scheme for dense, complex-symmetric, linear systems in acoustics BE computations, SIAM J Sci Comput **19**(5) 1450-1470 (Sep 1998), 2T440
Nonlinear pulse propagation in shallow-water environments with attenuating and dispersive sediments, J Acoust Soc Am **104**(3-PT1) 1356-1362 (Sep 1998), 2A441
Numerical simulation of the acoustic field of a phased-array medical ultrasound scanner, J Acoust Soc Am **104**(3-PT1) 1274-1283 (Sep 1998), 2A442
Radiating near-field asymptotics of a normal time-harmonic circular ultrasonic transducer in an elastic half-space, J Acoust Soc Am **104**(3-PT1) 1178-1187 (Sep 1998), 2A443
Study of engine noise transmission using statistical energy analysis, Proc Inst Mech Eng D **212**(D3) 205-213 (1998), 2A444
Ultrasonic beam models: An edge element approach, J Acoust Soc Am **104**(3-PT1) 1256-1265 (Sep 1998), 2A445
Wave-based matching-pursuits detection of submerged elastic targets, J Acoust Soc Am **104**(2-PT1) 937-946 (Aug 1998), 2A446
Boundary Element Method in Acoustics: A Development in Fortran (Integrated Sound Software, UK, 1998) 3R8
Vibro-acoustic analysis and identification of defects in rotating machinery - Part I: Theoretical model, J Sound Vib **216**(4) 533-570 (Oct 1998), 3A180
Time-domain numerical simulation of a flow-impedance tube, J Comput Phys **146**(1) 29-57 (Oct 1998), 3T294
Calculation of sound reduction by a screen in a turbulent atmosphere using the parabolic equation method, Acustica **84**(4) 599-606 (Jul-Aug 1998), 3A295
Discrete transparent boundary conditions for wide angle parabolic equations in underwater acoustics, J Comput Phys **145**(2) 611-638 (Sep 1998), 3A296
Acoustic radiation of baffled finite ducts with vibrating walls, J Sound Vib **216**(3) 461-493 (Sep 1998), 3A332
Element-Free Galerkin solutions for Helmholtz problems: Formulation and numerical assessment of the pollution effect, Comput Methods Appl Mech Eng **162**(1-4) 317-335 (Aug 1998), 3A333
Far field of a moving oscillating source in the case of resonance, J Appl Math Mech **62**(2) 225-236 (1998), 3A334
Fictitious frequencies using dual series representation, Mech Res Commun **25**(5) 529-534 (Sep-Oct 1998), 3T335
Flattened surface parabolic equation, J Acoust Soc Am **104**(4) 2167- 2173 (Oct 1998), 3A336
Generalized Bremmer series with rational approximation for the scattering of waves in inhomogeneous media, J Acoust Soc Am **104**(4) 1943-1963 (Oct 1998), 3A337
Implementation and experimental validation of a new viscothermal acoustic FE for acousto-elastic problems, J Sound Vib **216**(1) 159-185 (Sep 1998), 3A338
Improved domain decomposition method for the 3D Helmholtz equation, Comput Methods Appl Mech Eng **162**(1-4) 113-124 (Aug 1998), 3A339
Improved ray-tracing algorithm for predicting sound propagation outdoors, J Acoust Soc Am **104**(4) 2077-2083 (Oct 1998), 3A340
Modal analysis in lined wedge-shaped ducts, J Sound Vib **216**(4) 673-696 (Oct 1998), 3A341
Modes in lined wedge-shaped ducts, J Sound Vib **216**(4) 649-671 (Oct 1998), 3A342
Numerical simulation of the generation of axisymmetric mode jet screech tones, AIAA J **36**(10) 1801-1807 (Oct 1998), 3A343
Reconstructing interior acoustic pressure fields via Helmholtz equation least-squares method, J Acoust Soc Am **104**(4) 2054-2060 (Oct 1998), 3A344
Reduced-cost methods for large time domain integral equation scattering analyses, Commun Numer Methods Eng **14**(8) 751-761 (Aug 1998), 3A345
Two problems of waveguides carrying mean fluid flow, J Sound Vib **216**(4) 713-738 (Oct 1998), 3A346
Reciprocity properties of one-way propagators, Geophys **63**(5) 1795-1798 (Sep-Oct 1998), 3A1458
Optimization of finite difference schemes for wave equations (Chinese), J Shanghai Jiaotong Univ **32**(7) 49-53 (Jul 1998), 4A47
Gas path sound transmission in spherically-shaped reciprocating compressors: Theory and experiment, J Vib Acoust **121**(1) 8-17 (Jan 1999), 4A295
Use of modal tailoring to minimize the radiated sound power to vibrating shells: Theory and experiment, J Sound Vib **217**(2) 335-350 (Oct 1998), 4A325
Acoustic shape sensitivity analysis using the boundary integral equation, J Acoust Soc Am **104**(5) 2851-2860 (Nov 1998), 4A326
Complex acoustic waveforms excited with multiple picosecond transient gratings formed using spe-

cially designed phase-only beam-shaping optics, J Acoust Soc Am **104**(5) 2807-2813 (Nov 1998), 4A327
Conservation of energy and absorption in acoustic fields for linear and nonlinear propagation, J Acoust Soc Am **104**(5) 2654-2663 (Nov 1998), 4A328
Coupled FE wave number decomposition method for the modeling of piezoelectric transducers radiating in fluid-filled boreholes, J Acoust Soc Am **104**(5) 2779-2789 (Nov 1998), 4A329
Dual formulation of multiple reciprocity method for the acoustic mode of a cavity with a thin partition, J Sound Vib **217**(1) 75-95 (Oct 1998), 4A330
Exterior problems of wave propagation, Comput Methods Appl Mech Eng **164**(1-2) 3-264 (Oct 1998), 4A331
Guided waves in layered cubic media: Convergence study of a polynomial expansion approach, J Acoust Soc Am **104**(5) 2638-2644 (Nov 1998), 4A332
High-order finite difference methods for the Helmholtz equation, Comput Methods Appl Mech Eng **163**(1-4) 343-358 (Sep 1998), 4A333
Infinite elements in the time domain using a prolate spheroidal multipole expansion, Int J Numer Methods Eng **43**(5) 889-908 (Nov 1998), 4A334
Modeling of horn-type loudspeakers for outdoor sound reinforcement systems, Appl Acoust **56**(1) 25-37 (Jan 1999), 4A335
Newton-type method for a transmission problem in inverse scattering, Inverse Prob **14**(5) 1207-1227 (Oct 1998), 4A336
Non-Reflective Boundary Conditions and sound source modeling in computational aeroacoustics (Chinese), J Shanghai Jiaotong Univ **32**(7) 36-39 (Jul 1998), 4A337
Nonlinear standing waves in an acoustical resonator, J Acoust Soc Am **104**(5) 2664-2674 (Nov 1998), 4A338
Wagstaff's integration silencing processor filter: A method for exploiting fluctuations to achieve improved sonar signal processor performance, J Acoust Soc Am **104**(5) 2915-2924 (Nov 1998), 4A339
Finite element analysis and experimental measurements of natural eigenmodes and random responses of wooden bars used in musical instruments, Appl Acoust **56**(3) 141-156 (Mar 1999), 5A35
Boundary element analysis of mufflers with an improved method for deriving the four-pole parameters, J Sound Vib **217**(4) 767-779 (Nov 1998), 5A56
Accurate barrier modeling in the presence of atmospheric effects, Appl Acoust **56**(3) 157-182 (Mar 1999), 5A304
Detection performance of two efficient source tracking algorithms for matched-field processing, J Acoust Soc Am **104**(6) 3351-3355 (Dec 1998), 5A305
Discrete Huygens' model approach to sound wave propagation, J Sound Vib **218**(3) 419-444 (Dec 1998), 5A306
Explicit integral formulation for transient acoustic radiation, J Acoust Soc Am **104**(6) 3251-3258 (Dec 1998), 5A307
Fast method for simulating the propagation of pulses radiated by a rectangular normal transducer into an elastic half-space, J Acoust Soc Am **104**(6) 3199-3211 (Dec 1998), 5A308
High-frequency asymptotic description of pulses radiated by a circular normal transducer into an elastic half-space, J Acoust Soc Am **104**(6) 3190-3198 (Dec 1998), 5A309
Improved methods for estimating fitting density in industrial workrooms, J Sound Vib **218**(3) 463-479 (Dec 1998), 5A310
Method of fundamental solutions for axisymmetric acoustic scattering and radiation problems, J Acoust Soc Am **104**(6) 3212-3218 (Dec 1998), 5A311
Second-order perturbations of peak-arrival times due to sound-speed variations, J Acoust Soc Am **104**(6) 3313-3325 (Dec 1998), 5A312
Simple conformal methods for finite-difference time-domain modeling of pressure-release surfaces, J Acoust Soc Am **104**(6) 3219-3226 (Dec 1998), 5A313
Smooth model of an acoustic source, Eng Anal Boundary Elements **22**(4) 333-340 (Dec 1998), 5A314
Potential inversion problems for coupled system of downgoing and upcoming one-way wave equations, J Comput Math **16**(6) 551-560 (Nov 1998), 5A1471
Numerical simulation of acoustic waves interacting with a shock wave in a quasi-1D convergent-divergent nozzle using an unstructured finite volume algorithm, Int J Comput Fluid Dyn **10**(4) 281-289 (1998), 6T260
Finite element computation of 3D elastoacoustic vibrations, J Sound Vib **219**(2) 279-306 (Jan 1999), 6A275
Sound propagation over noise barriers with absorbing ground, J Sound Vib **218**(5) 799-823 (Dec 1998), 6A316
Application of large-eddy simulations and Kirchhoff method to jet noise prediction, AIAA J **36**(12) 2170-2178 (Dec 1998), 6A319
Boundary integral equation method for 2D acoustic scattering problems, J Acoust Soc Am **105**(1) 93-105 (Jan 1999), 6A320
Efficient indirect BE technique for multi-frequency acoustic analysis, Int J Numer Methods Eng **44**(1) 59-76 (Jan 1999), 6A321
Formulation of four poles of 3D acoustic systems from pressure response functions with special attention to source modeling, J Sound Vib **219**(1) 89-103 (Jan 1999), 6A322
Modifications to the Lax-Wendroff scheme for hyperbolic systems with source terms, Int J Numer Methods Eng **44**(1) 27-40 (Jan 1999), 6A323
Non-reflecting boundary conditions for waveguides, Math Comput **68**(225) 123-144 (Jan 1999), 6A324
Reciprocity and energy conservation within the parabolic approximation, Wave Motion **29**(2) 175-194 (Feb 1999), 6A325
Volume source boundary point method and its application to acoustic radiation calculation, J Vib Eng **11**(4) 395-401 (Dec 1998), 6T326
Finite Element Analysis of Acoustic Scattering (Springer-Verlag, New York, 1998) 7R8
Noise Control and Acoustics Division - 1998 (ASME, New York, 1998) 7N11
Internal field error reduction in BE analysis for Helmholtz equation, Eng Anal Boundary Elements **23**(3) 211-222 (Mar 1999), 7A70
Waves transmission through plate and beam junctions, Int J Mech Sci **41**(7) 831-843 (Jul 1999), 7A207
Dynamic analysis of an annular cavity: Criteria for the selection of the modal basis, J Sound Vib **219**(4) 639-667 (Jan 1999), 7A267
Scattering of a spherical wave by a thin hard strip, J Sound Vib **219**(5) 837-857 (Feb 1999), 7A300
Boundary integral formulation for the prediction of acoustic scattering from periodic structures, J Acoust Soc Am **105**(2) 762-769 (Feb 1999), 7A316
Comment on the Aeroacoustic formulation of Hardin and Pope, AIAA J **37**(1) 141-143 (Jan 1999), 7T317
Modeling the influence of acoustic linear non-uniformities on duct modes, J Sound Vib **219**(5) 859-879 (Feb 1999), 7A318
New analytical method for the calculation of outdoor noise propagation, Appl Acoust **57**(2) 109-127 (Jun 1999), 7A319
Numerical experiments for acoustic modes of a square cavity using the dual BEM, Appl Acoust **57**(4) 293-325 (Aug 1999), 7A320
Parallel computation for acoustic radiation in a subsonic nonuniform flow with a coupled FEM-BEM formulation, Eng Anal Boundary Elements **23**(2) 139-153 (Feb 1999), 7A321
Sound propagation in a linear shear flow, J Sound Vib **219**(5) 739-770 (Feb 1999), 7A322
Transfer matrix of curved duct bends and sound attenuation in curved expansion chambers, Appl Acoust **56**(4) 297-309 (Apr 1999), 7A323
Boundary integral operators for the Laplace and the Helmholtz equations and their discretizations, Eng Anal Boundary Elements **23**(4) 327-337 (Apr 1999), 8A53
Multiple multipole expansion approach for predicting the sound power of vibrating structures, Acustica **85**(1) 47-53 (Jan-Feb 1999), 8A297
Attenuation of cavity flow oscillation through leading edge flow control, J Sound Vib **221**(1) 23-47 (Mar 1999), 8A298
Acoustic eigenfrequencies in a spheroidal cavity with a concentric penetrable sphere, J Acoust Soc Am **105**(3) 1539-1547 (Mar 1999), 8A336
Advanced BE-fast Fourier transform axisymmetric formulation for acoustic radiation and wave scattering problems, J Acoust Soc Am **105**(3) 1517-1526 (Mar 1999), 8A337
Convergence rates of a regularized Newton method in sound-hard inverse scattering, SIAM J Numer Anal **36**(1) 125-142 (Jan 1999), 8A338
Development of numerical techniques for near-field aeroacoustic computations, Int J Numer Methods Fluids **29**(6) 719-731 (Mar 1999), 8A339
Finite difference methods for the wide-angle "parabolic" equation, SIAM J Numer Anal **36**(1) 317-329 (Jan 1999), 8A340
Finite elements with nonreflecting boundary conditions formulated by the Helmholtz integral equation, J Vib Acoust **121**(2) 214-220 (Apr 1999), 8A341
Generalized modal impulse response and Fourier transform approach to investigate acoustic transient Bessel beams and Bessel bullets, J Acoust Soc Am **105**(3) 1493-1502 (Mar 1999), 8A342
Minimizing the sound power radiated by a cube as a function of the size of constrained layer damping patches, J Acoust Soc Am **105**(3) 1714-1724 (Mar 1999), 8A343
Multidomain spectral computations of sound radiation from ducted fans, AIAA J **37**(3) 296-302 (Mar 1999), 8A344
Numerical analysis for perforated muffler components with mean flow, J Vib Acoust **121(2)** 231-236 (Apr 1999), 8A345
Selections of shape functions for dimensional reduction to Helmholtz's equation, Numer Methods PDE **15**(2) 169-190 (Mar 1999), 8A346
Spatially averaged impulse response for an unfocused piston transducer, J Acoust Soc Am **105**(3) 1563-1566 (Mar 1999), 8A347
Use of wavelet transform for compressing acoustic wave data from acoustic logging (Chinese), J Xi'an Jiaotong Univ **33**(3) 35-38 (1999), 8A348
Wave field extrapolation approach to acoustical modeling in enclosed spaces, J Acoust Soc Am **105**(3) 1725-1733 (Mar 1999), 8A349
Optimal placement of a proof mass actuator for active structural acoustic control, Mech Struct Machines **27**(1) 23-35 (1999), 8A834
Asymptotic a posteriori FE bounds for the outputs of noncoercive problems: The Helmholtz and Burgers equations, Comput Methods Appl Mech Eng **171**(1-2) 77-86 (Mar 1999), 9A12
Numerical calculation for determining sonar self noise sources due to structural vibration, Appl Acoust **58**(1) 19-32 (Sep 1999), 9A319
Discrete wave number transform approach for predicting pressure levels due to a line source radiating over 2D multi-layered materials, Appl Acoust **58**(2) 173-194 (Oct 1999), 9A340
Experimental investigation of noise reduction in supersonic jets due to jet rotation, J Sound Vib **221**(3) 505-524 (Apr 1999), 9A356
Boundary spectral method for solving exterior acoustical problems with hypersingular integrals, Int J Numer Methods Eng **44**(12) 1775-1783 (Apr 1999), 9A362
Computational aeroacoustics simulations using the expansion about incompressible flow approach, AIAA J **37**(4) 409-416 (Apr 1999), 9A363
Effect of sensor placement errors on cylindrical near-field acoustic holography, J Acoust Soc Am **105**(4) 2269-2276 (Apr 1999), 9A364
Evaluation method on stochastic response of a linear acoustic system with non-stationary noise input by employing a time-varying operator and its experiment, J Sound Vib **221**(3) 530-536 (Apr 1999), 9T365
Fast numerical scheme of computing acoustic pressure fields for planar circular ultrasound transducers, J Acoust Soc Am **105**(4) 2243-2247 (Apr 1999), 9A366
Influence of perturbations on chaotic behavior of the parabolic ray system, J Acoust Soc Am **105**(4) 2142-2148 (Apr 1999), 9A367
Modeling of sound fields in enclosed spaces with absorbent room surfaces - Part I: Performance spaces, Appl Acoust **58**(1) 1-18 (Sep 1999), 9A368
Numerical decouping analysis of a resonator with absorbent material, Appl Acoust **58**(2) 109-122 (Oct 1999), 9A369
Optimized meshless method for acoustics (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 109-114 (Jan 1999), 9A370
Perfectly matched layers for elastic waves in cylindrical and spherical coordinates, J Acoust Soc Am **105**(4) 2075-2084 (Apr 1999), 9A371
Power estimation of sound sources on low-speed electric trains using a deconvolution approach, J Acoust Soc Am **105**(4) 2350-2358 (Apr 1999), 9A372
Solution of viscoelastic scattering problems in linear acoustics using hp boundary-FEM, Int J Numer Methods Eng **44**(12) 1885-1907 (Apr 1999), 9A373
IUTAM Symposium on Computational Methods for Unbounded Domains (Kluwer, Netherlands, 1998) 10N8
Structural-acoustic design at high frequency using the energy FEM, J Vib Acoust **121**(3) 295-301 (Jul 1999), 10A57
Problem of an optimal discretization in acoustic modeling, Arch Acoust **23**(2) 239-249 (1998), 10A81
Finite element method and impulse response method analysis of circular ultrasonic transducers, Arch Acoust **23**(2) 291-305 (1998), 10A350
Acoustic Bessel Bullets, J Sound Vib **222**(1) 115-143 (Apr 1999), 10A359
Application of the fractal analysis in the sea bottom recognition, Arch Acoust **23**(4) 499-511 (1998), 10A360
Diffraction of short waves modeled using new mapped wave envelope finite and infinite elements, Int J Numer Methods Eng **45**(3) 335-354 (May 1999), 10A361
Identification of uncorrelated sources of exciting forces by means of the methods of crosspower spectrum matrix decomposition into singular values and eigenvalues, Arch Acoust **23**(2) 227-238 (1998), 10A362
Influence of the mass matrix on the dispersive nature of the semi-discrete, second-order wave equation, Comput Methods Appl Mech Eng **173**(1-2) 147-166 (Apr 1999), 10A363
Note on a Fourth order finite difference scheme for the wave equation, J Sci Comput **13**(4) 461-469 (Dec 1998), 10A364
Numerical estimation of end corrections in extended-duct and perforated-duct mufflers, J Vib Acoust **121**(3) 302-308 (Jul 1999), 10A365
Optimization of the duration of an echogram resulting from computer simulation of the acoustic properties of a room, Arch Acoust **23**(3) 353-361 (1998), 10A366
Pollution effect in FE solutions of the 3D-Helmholtz equation, Comput Methods Appl Mech Eng **170**(1-2) 155-172 (Feb 1999), 10A367
Three-dimensional traveltime computation using the fast marching method, Geophys **64**(2) 516-523 (Mar-Apr 1999), 10A1532
Compact matrix formulation using the impedance and mobility approach for the analysis of structural-acoustic systems, J Sound Vib **223**(1) 97-113 (May 1999), 11A299
Statistical power-flow analysis of an imperfect ribbed cylinder, J Sound Vib **222**(5) 813-832 (May 1999), 11A318
Third-order BEM for exterior acoustics with applications to scattering by rigid and elastic shells, J Sound Vib **222**(5) 699-722 (May 1999), 11A325
Acoustic attenuation performance of circular expansion chambers with extended inlet-outlet, J Sound Vib **223**(2) 197-212 (Jun 1999), 11A326
Applications of the causality condition to 1D acoustic reflection problems, J Acoust Soc Am **105**(5) 2710-2716 (May 1999), 11A331
Approximation of singular source terms in differential equations, Numer Methods PDE **15**(4) 503-520 (Jul 1999), 11A332
Asymptotic formulation for an acoustically driven field inside a rectangular cavity with a well-defined convective mean flow motion, J Sound Vib **223**(1) 73-95 (May 1999), 11A333
Extension of the angular spectrum approach to curved radiators, J Acoust Soc Am **105**(5) 2618-2627 (May 1999), 11A334
Full-field equations for acoustic radiation and scattering, J Acoust Soc Am **105**(5) 2574-2584 (May 1999), 11A335
Highly resolved detection and selective focusing in a waveguide using the DORT method, J Acoust Soc Am **105(5)** 2634-2642 (May 1999), 11A336
Noise propagation from a cutting of arbitrary cross-section and impedance, J Sound Vib **223**(3) 355-378 (Jun 1999), 11A337
Radiation of ultrasound into an isotropic elastic half-space via wavefront expansions of the impulse response, J Acoust Soc Am **105**(5) 2565-2573 (May 1999), 11A338
Solution of wave propagation problems by the cell discretization method, Comput Methods Appl Mech Eng **174**(1-2) 1-21 (May 1999), 11A339
Variational formulation using integral equations to solve sound scattering above an absorbing plane, J Acoust Soc Am **105**(5) 2557-2564 (May 1999), 11A340
Wave analysis of ray chaos in underwater acoustics, Chaos **9**(2) 483-492 (Jun 1999), 11A341
Recipe for stability of finite-difference wave-equation computations, Geophys **64**(3) 967-969 (May-Jun 1999), 11A1543
Higher-order triangular and tetrahedral FEs with mass lumping for solving the wave equation, J Eng Math **35**(4) 405-426 (May 1999), 12A48
Explicit FEMs for symmetric hyperbolic equations, SIAM J Numer Anal **36**(3) 935-952 (Mar-May 1999), 12A193
Hybrid model for vibroacoustic studies, Acustica **85**(3) 312-324 (May-Jun 1999), 12A271
Computer simulation and acoustic tuning of rolling piston vapor compressors, Comput Model Simul in Eng **4**(2) 117-123 (May 1999), 12T310
Coupling of BEM and FEM for exterior problems for the Helmholtz equation, Math Comput **68**(227) 945-953 (Jul 1999), 12A311
Detection of phase- of frequency-modulated signals in reverberation noise, J Acoust Soc Am **105**(6) 3375-3389 (Jun 1999), 12A312
Direction finding of an emitting source from time delays, J Acoust Soc Am **105**(6) 3355-3363 (Jun 1999), 12A313
Error analysis for the numerical evaluation of the diagonal forms of the scalar spherical addition theorem, SIAM J Numer Anal **36**(3) 906-921 (Mar-May 1999), 12A314
Finite-element analysis of the nonlinear propagation of high-intensity acoustic waves, J Acoust Soc Am **106**(1) 91-101 (Jul 1999), 12A315
Geoacoustic inversion via local, global, and hybrid algorithms, J Acoust Soc Am **105**(6) 3219-3230 (Jun 1999), 12A316
Greenspan acoustic viscometer: Numerical calculations of fields and duct-end effects, J Acoust Soc Am **106**(1) 73-82 (Jul 1999), 12A317
Imposing pattern nulls on broadband array responses, J Acoust Soc Am **105**(6) 3390-3398 (Jun 1999), 12A318
Influence of the pollution on the admissible field error estimation for FE solutions of the Helmholtz equation, Int J Numer Methods Eng **45**(7) 783-800 (Jul 1999), 12A319
Investigating polynomial approximations for the spectra of the pipe organ sound, Arch Acoust **24**(1) 3-24 (1999), 12A320
Least squares method for the Helmholtz equation, Comput Methods Appl Mech Eng **175**(1-2) 121-136 (Jun 1999), 12A321
Model-based dispersive wave processing: A recursive Bayesian solution, J Acoust Soc Am **105**(6) 3364-3374 (Jun 1999), 12A322

Modeling of an electrohydraulic lithotripter with the KZK equation, J Acoust Soc Am **106**(1) 102-112 (Jul 1999), 12A323
New calculation procedure for spatial impulse responses in ultrasound, J Acoust Soc Am **105**(6) 3266-3274 (Jun 1999), 12A324
Non-coherent ray acoustics method: Applicability ranges and enhancement possibilities, Acoust Lett **21**(7) 130-134 (Jan 1998), 12A325
Nonlocal boundary conditions for finite-difference parabolic equation solvers, J Acoust Soc Am **106**(1) 143-150 (Jul 1999), 12A326
Parallel computation of the smallest eigenpair of an acoustic problem with damping, Int J Numer Methods Eng **45**(6) 765-777 (Jun 1999), 12A327
Peculiarities of the sound field spatial interference structure in shallow water, Acoust Lett **21**(8) 161-164 (Feb 1998), 12A328
Radiation boundary conditions for the numerical simulation of waves, Acta Numer **8** 47-106 (1999), 12A329
Simulation model and computation of noise emission of an installed propeller, Comput Model Simul in Eng **4**(2) 104-116 (May 1999), 12T330
Solution of Helmholtz equation by differential quadrature method, Comput Methods Appl Mech Eng **175**(1-2) 203-212 (Jun 1999), 12A331
Sound propagation over a large wedge: A comparison between the geometrical theory of diffraction and the parabolic equation, J Acoust Soc Am **106**(1) 113-119 (Jul 1999), 12A332
Spurious modes in FE discretizations of the wave equation may not be all that bad, Appl Numer Math **30**(4) 425-445 (Jul 1999), 12A333
Three-dimensional beam directivity of phase-steered ultrasound, J Acoust Soc Am **105**(6) 3275-3282 (Jun 1999), 12A334
Three-dimensional transducer voltage in anisotropic materials characterization, J Acoust Soc Am **106**(1) 36-45 (Jul 1999), 12A335

172Z. Experimental techniques

Acoustic nonlinearity of a circular orifice: An experimental study of the instantaneous pressure-flow relationship, Noise Control Eng J **46**(3) 97-107 (May-Jun 1998), 1A304
Extracting modal wave numbers from data collected in range-dependent environments, J Acoust Soc Am **104**(1) 156-162 (Jul 1998), 1A342
Measurement of low frequency impedance using an impedance tube, J Low Frequency Noise Vib **17**(1) 1-10 (1998), 1A343
Noise measurements in thermochemical diffused layers, J Mech Behavior Mat **9**(1) 1-8 (1998), 1A344
Boundary element prediction of sound propagation in ducts containing bulk absorbing materials, J Vib Acoust **120**(4) 976-981 (Oct 1998), 2A431
Design and performance of an electrostrictive-polymer-film acoustic actuator, J Sound Vib **215**(2) 297-311 (Aug 1998), 2A447
Determination of signal coherence length based on signal coherence and gain measurements in deep and shallow water, J Acoust Soc Am **104**(2-PT1) 831-837 (Aug 1998), 2A448
New transducer holder mechanism for efficient generation and reception of Lamb modes in large plates, J Acoust Soc Am **104**(3-PT1) 1498-1502 (Sep 1998), 2A449
Simplified method for determining sediment size and concentration from multiple frequency acoustic backscatter measurements, J Acoust Soc Am **104**(2-PT1) 820-830 (Aug 1998), 2A450
Transport enhancement in acoustically excited cavity flows - Part 1: Nonreactive flow diagnostics, AIAA J **36**(9) 1562-1567 (Sep 1998), 2A451
Transport enhancement in acoustically excited cavity flows - Part 2: Reactive flow diagnostics, AIAA J **36**(9) 1568-1574 (Sep 1998), 2A452
Extracting Rayleigh waves from noise using a differential optical interferometer, Res Nondestructive Eval **10**(3) 171-184 (1998), 2A902
Structure of aqueous solutions of tetramethylammonium chloride investigated by position annihilation and ultrasonic methods, Acta Phys Polonica A **93**(4) 649-658 (Apr 1998), 2T1059
Vibro-acoustic analysis and identification of defects in rotating machinery - Part II: Experimental study, J Sound Vib **216**(4) 571-583 (Oct 1998), 3A181
Implementation and experimental validation of a new viscothermal acoustic FE for acousto-elastic problems, J Sound Vib **216**(1) 159-185 (Sep 1998), 3A338
Acoustic imaging system for the concurrent measurement of suspended sediment concentration and particle velocity, J Acoust Soc Am **104**(4) 2160-2166 (Oct 1998), 3A347
Intrauterine sounds in sheep, J Sound Vib **216**(3) 539-542 (Sep 1998), 3T348
Matched-beam processing: Range tracking with vertical arrays in mismatched environments, J Acoust Soc Am **104**(4) 2174-2188 (Oct 1998), 3A349
Measurement of viscous sound absorption at 50 - 150 kHz in a model turbid environment, J Acoust Soc Am **104**(4) 2114-2120 (Oct 1998), 3A350
Method of measuring the dynamic flow resistance and the acoustic measurement of the effective static flow resistance in stratified rockwool samples, J Sound Vib **216**(3) 495-505 (Sep 1998), 3A351
Transducer misalignment effects in beam reflection from elastic structures, J Acoust Soc Am **104**(4) 1982-1991 (Oct 1998), 3A352
Very long range source localization with a small vertical array, J Acoust Soc Am **104**(4) 2149-2159 (Oct 1998), 3A353
Piezoelectric cantilever acoustic transducer, J Micromech Microeng **8**(3) 230-238 (Sep 1998), 3T447
Gas path sound transmission in spherically-shaped reciprocating compressors: Theory and experiment, J Vib Acoust **121**(1) 8-17 (Jan 1999), 4A295
Experimental investigation on the self-excitation of thermoacoustic standing wave in a vertical subcooled boiling channel (Chinese), J Huazhong Univ Sci Tech **26**(7) 88-90 (Sep 1998), 4A298
Modal technique for active control of tones radiated from a ducted fan, J Aircraft **35**(5) 754-760 (Sep-Oct 1998), 4A319
Sound insertion loss of stiffened enclosure plates using the FEM and the classical approach, J Sound Vib **217**(2) 239-260 (Oct 1998), 4A324
Bubble counting using an inverse acoustic scattering method, J Acoust Soc Am **104**(5) 2699-2717 (Nov 1998), 4A340
Experimental demonstration of the pseudo-Rayleigh (A_0) wave, J Acoust Soc Am **104**(5) 2727-2732 (Nov 1998), 4A341
Innovative design of a probe-tube attachment for a 1/2-in microphone, J Acoust Soc Am **104**(5) 2903-2910 (Nov 1998), 4A342
Ring-type all fiber Fabry-Perot interferometer hydrophone system, J Acoust Soc Am **104**(5) 2798-2806 (Nov 1998), 4A343
Study on verifying technology of rms detector characteristics of sound level meters, J Acoust Soc Am **104**(5) 2911-2914 (Nov 1998), 4A344
Technique for measuring the ellipticity and rotation of the polarization plane of ultrasound, J Acoust Soc Am **104**(5) 2756-2762 (Nov 1998), 4A860
Physics of resonance in a supersonic forward-facing cavity, J Spacecraft Rockets **35**(5) 626-632 (Sep-Oct 1998), 4A1248
High frequency noise generation in small axial flow fans, J Sound Vib **218**(2) 177-204 (Nov 1998), 5A264
Screech tone noise and mode switching in supersonic swirling jets, AIAA J **36**(11) 1968- 1974 (Nov 1998), 5A275
Improved moving frame acoustic holography for coherent bandlimited noise, J Acoust Soc Am **104**(6) 3179-3189 (Dec 1998), 5A315
Interaction of sound from supersonic jets with nearby structures, AIAA J **36**(12) 2153-2162 (Dec 1998), 6A286
Experimental analysis of acoustic scattering from lengthwise soldered cylindrical shells, J Acoust Soc Am **105**(1) 183-193 (Jan 1999), 6A327
Further investigation on noise distribution function, J Sound Vib **218**(4) 599-604 (Dec 1998), 6A328
Seabottom backscatter studies in the western continental shelf of India, J Sound Vib **219**(1) 51-62 (Jan 1999), 6A329
Electropneumatic transducers as secondary actuators for active noise control - Part I: Theoretical analyses, J Sound Vib **219**(3) 405-427 (Jan 1999), 7A311
Electropneumatic transducers as secondary actuators for active noise control - Part II: Experimental analysis of the subsonic source, J Sound Vib **219**(3) 429-449 (Jan 1999), 7A312
Electropneumatic transducers as secondary actuators for active noise control - Part III: Experimental control in ducts with the subsonic source, J Sound Vib **219**(3) 451-481 (Jan 1999), 7A324
One-channel time-reversal in chaotic cavities: Experimental results, J Acoust Soc Am **105**(2) 618-625 (Feb 1999), 7A325
Partial source discrimination in near field acoustic holography, Appl Acoust **57**(3) 243-261 (Jul 1999), 7A326
Sensitivity measurements of piezoelectric polymer hydrophones from 0.2 - 2 MHz using a broadband-pulse technique, J Acoust Soc Am **105**(2) 725-731 (Feb 1999), 7A327
Sonic imaging in air by a low-cost system, Acoust Lett **21**(5) 88-91 (Nov 1997), 7A328
Active control of environmental noise - III: Implementation of theory into practice, J Sound Vib **220**(3) 469-496 (Feb 1999), 8A325
Control of aircraft interior broadband noise with foam-PVDF smart skin, J Sound Vib **220**(3) 541-557 (Feb 1999), 8A328
Control of low frequency structurally radiated noise with an array of weak radiating cells: An experimental study, J Intelligent Mat Syst Struct **9**(4) 260-271 (Apr 1998), 8A329
Acoustic tomography experiment in the eastern Arabian Sea, Acustica **85**(1) 31-38 (Jan-Feb 1999), 8A350
Experimental study of a fractal acoustical cavity, J Acoust Soc Am **105**(3) 1567-1574 (Mar 1999), 8A351
Frequency-selective attenuation of sound propagation and reverberation in the Yellow Sea, J Sound Vib **220**(2) 331-342 (Feb 1999), 8T352
Industrial noise from a point source, J Sound Vib **220**(2) 193-201 (Feb 1999), 8A353
Transportation noise annoyance: A simulated-environment study for road, railway and aircraft noises - Part 1: Overall annoyance, J Sound Vib **220**(2) 251-278 (Feb 1999), 8A354
Transportation noise annoyance: A simulated-environment study for road, railway and aircraft noises - Part 2: Activity disturbance and combined results, J Sound Vib **220**(2) 279-295 (Feb 1999), 8A355
Active control of radiated duct noise with an insufficient number of sensors and actuators, J Sound Vib **221**(3) 351-369 (Apr 1999), 9A349
Evaluation method on stochastic response of a linear acoustic system with non-stationary noise input by employing a time-varying operator and its experiment, J Sound Vib **221**(3) 530-536 (Apr 1999), 9T365
Biased lead zirconate titanate as a high-power transduction material, J Acoust Soc Am **105**(4) 2248-2251 (Apr 1999), 9A374
Dynamic stiffness as an acoustic specification parameter for wall ties used in masonry cavity walls, Appl Acoust **58**(1) 51-68 (Sep 1999), 9A375
Holographic reconstruction of active sources and surface admittance in an enclosure, J Acoust Soc Am **105**(4) 2377-2383 (Apr 1999), 9A376
Measurement of transient response of rooms and comparison with geometrical acoustic models, J Acoust Soc Am **105**(4) 2304-2317 (Apr 1999), 9A377
Multiple-frequency method for potentially improving the accuracy and precision of *in situ* target strength measurements, J Acoust Soc Am **105**(4) 2359-2376 (Apr 1999), 9A378
Performance of sinusoidally deformed hydrophone line arrays, J Acoust Soc Am **105**(4) 2203-2209 (Apr 1999), 9A379
Sensor coupling in acoustic media using reciprocity, J Acoust Soc Am **105**(4) 2252-2260 (Apr 1999), 9A380
Separation of an acoustic signal from noise via the use of point pressure and velocity measurements, J Acoust Soc Am **105**(4) 2332-2341 (Apr 1999), 9A381
Sound field assessment by measurement of sound pressure distribution close to machine noise source: Estimation of normal particle velocity at an aperture by single-plane sound pressure measurement, JSME Int J Ser C **40**(4) 607-615 (Dec 1997), 9A382
Transfer coupler reciprocity: A new low-frequency coupler-reciprocity technique for the absolute calibration of field hydrophones under full enviornmental conditions, J Acoust Soc Am **105**(4) 2342-2349 (Apr 1999), 9A383
Optimization of the duration of an echogram resulting from computer simulation of the acoustic properties of a room, Arch Acoust **23**(3) 353-361 (1998), 10A366
Absorption of ultrasonic waves in aqueous solutions of α-cyclodextrin with alkylpyridinium or alkyltrimethylammonium bromides, Arch Acoust **23**(3) 411-428 (1998), 10A368
Acoustical distortions in capacitance hydrophones and the effect of diaphragms in measurements of shock wave pulses, Arch Acoust **23**(2) 251-266 (1998), 10A369
Detection and discrimination of modulation type at low modulation rates, Arch Acoust **23**(3) 363-378 (1998), 10T370
Multilayer method for linearity determination of the PVDF hydrophone for pressures up to 2.3 MPa, Arch Acoust **23**(4) 513-520 (1998), 10A371
Parametric patterns of voices in forensic applications, Arch Acoust **23**(4) 463-479 (1998), 10T372
Perception of mixed modulation for single components in harmonic complex for high modulating frequencies, Arch Acoust **23**(3) 379-390 (1998), 10A373
Transversal equivalent circuit model of a filter with a surface acoustic wave, Arch Acoust **23**(2) 281-290 (1998), 10A374
Tuning in the amplitude modulation rate domain, Arch Acoust **23**(4) 491-498 (1998), 10A375
Mathematical modeling of an ultrasonic flowmeter primary device, Arch Acoust **23**(3) 429-442 (1998), 10A1099
Acoustic output levels and ultrasound output display standard, Arch Acoust **23**(2) 267-280 (1998), 10A1639
Autoregressive integrated moving averages modeling of a traffic noise time series, Appl Acoust **58**(3) 283-294 (Nov 1999), 11A342
Validation of a model for railway rolling noise using field measurements with sinusoidally profiled wheels, J Sound Vib **223**(4) 587-609 (Jun 1999), 12A274
Broadband tomographic imaging with a circular array, Acoust Lett **21**(7) 144-150 (Jan 1998), 12A336
Comparisons of measured and predicted acoustic fluctuations for a 3250-km propagation experiment in the eastern North Pacific Ocean, J Acoust Soc Am **105**(6) 3202-3218 (Jun 1999), 12A337
Enhancement of cavitation yield by three-axis orthogonal ultrasound irradiation, Acoust Lett **21**(8) 165-167 (Feb 1998), 12A338
Influence of a modulating signal starting phase on the modulation detection, Arch Acoust **24**(1) 39-47 (1999), 12T339
Influence of orientation of the behavior of the acoustic emission in face centered cubic metal single crystals compressed in a channel-die, Arch Acoust **24**(1) 85-95 (1999), 12A340
Measurement of sound fields using laser doppler anemometry, Acustica **85**(3) 401-411 (May-Jun 1999), 12A341
Near-caustic behavior in a 270-km acoustical experiment, J Acoust Soc Am **105**(6) 3231-3244 (Jun 1999), 12A342
Scale modeling of sound propagation in a city street canyon, J Sound Vib **223**(5) 795-819 (Jun 1999), 12A343
Single photon counting in Brillouin laser light scattering experiments, Arch Acoust **24**(1) 49-56 (1999), 12A344
Structure of aqueous solutions of 1,2- and 1,3-propanediol investigated by positron annihilation and ultrasonic methods, Acta Phys Polonica A **95**(4) 562-568 (Apr 1999), 12T345
Test of basin-scale acoustic thermometry using a large-aperture vertical array at 3250-km range in the eastern North Pacific Ocean, J Acoust Soc Am **105**(6) 3185-3201 (Jun 1999), 12A346
Time-delay estimation techniques applied to the acoustic detection of jet aircraft transits, J Acoust Soc Am **106**(1) 255-264 (Jul 1999), 12A347
Application of acoustic emission method to determine the state of friction process of metal collaborating pairs: Preliminary results, Arch Budowy Maszyn **46**(1) 79-84 (1999), 12A998

III. AUTOMATIC CONTROL

200. SYSTEMS THEORY AND DESIGN

200A. General theory

nD control systems in a practical sense, Appl Math Comp Sci 7(4) 907-941 (1997), 2A453
New robust stability results for linear systems with structured nonlinear perturbations, J Syst Control Eng **212**(I4) 241-247 (1998), 3T354
Ill-conditioned covariance matrices in the first-order two-step estimator, J Guidance Control Dyn **21**(5) 754-760 (Sep-Oct 1998), 3T362
Singular perturbation approach for modeling differential-algebraic systems, J Dyn Syst Meas Control **120**(4) 541-545 (Dec 1998), 3A370
Duality and sufficiency for fractional control problems with invexity, Nonlinear Anal **35**(5) 541-548 (Mar 1999), 4T345
Necessary and sufficient condition for robust stability and stabilizability of continuous-time linear systems with Markovian jumps, J Optim Theory Appl **99**(2) 359-379 (Nov 1998), 5T318
Quadratic boundedness of nominally linear systems, Int J Control **71**(6) 1105-1117 (Dec 1998), 6T357
Impedance matrix in series, Mech Syst Signal Processing **13**(1) 83-102 (Jan 1999), 7A329
Sufficient conditions for second-order linear systems having no zeros, J Vib and Control **5**(2) 233-235 (Mar 1999), 8A356
Conjugate points sufficient conditions for an optimal control, Control and Cybernetics 27(3) 353-362 (1998), 9T384
Contingent epiderivative and its applications to set-valued optimization, Control and Cybernetics 27(3) 375-386 (1998), 9T385
Time-parametric control: Uniform convergence of the optimal value functions of discretized problems, Control and Cybernetics **28**(1) 7-33 (1999), 9T386
Boundary observability, controllability, and stabilization of linear elastodynamic systems, SIAM J Control Optim 27(2) 521-542 (Nov 1998), 9T387
Controllability of nonlinear evolution systems with preassigned responses, J Optim Theory Appl **100**(2) 265-285 (Feb 1999), 9T388
Contribution plots: A missing link in multivariate quality control, Appl Math Comp Sci **8**(4) 775-792 (1998), 10A376
Distributed output feedback control of two-time-scale hyperbolic partial differential equation systems, Appl Math Comp Sci **8**(4) 713-732 (1998), 10T377
Time-optimal control of a parabolic system with multiple time-varying lags, Appl Math Comp Sci **8**(3) 471-489 (1998), 10A378
Second-order constraints for equations of motion of constrained systems, IEEE/ASME Trans Mechatronics **3**(3) 240-248 (Sep 1998), 12A102

General forms for the recursive determination of generalized inverses: Unified approach, J Optim Theory Appl **101**(3) 509-521 (Jun 1999), 12T348
Transmission zeros of mass-dashpot-spring systems, J Dyn Syst Meas Control **121**(2) 179-183 (Jun 1999), 12A382
Regularity of the minimum time function and minimum energy problems: The linear case, SIAM J Control Optim **37**(4) 1195-1221 (Apr 1999), 12T394

200B. Controllability, observability, realizability

Control systems theory for linear repetitive processes: Recent progress and open research problems, Appl Math Comp Sci 7(4) 737-774 (1997), 2T454
Controllability of 2D systems: A survey, Appl Math Comp Sci **7**(4) 835-854 (1997), 2A455
New perspective on controllability properties for dynamical systems, Appl Math Comp Sci **7**(4) 869-879 (1997), 2A456
New sliding mode approach to asymptotic feedback linearization with application to the control of nonglat systems, Appl Math Comp Sci **8**(1) 21-37 (1998), 2A457
Observer design for distributed-parameter dissipative bilinear systems, Appl Math Comp Sci **8**(2) 381-402 (1998), 2A458
Unit sliding mode control in infinite dimensional systems, Appl Math Comp Sci **8**(1) 7-20 (1998), 2A459
Unreachability and uncontrollability of 2D linear systems with bounded inputs, Appl Math Comp Sci **7**(3) 513-520 (1997), 2T460
Controllability issues in nonlinear state-dependent Riccati equation control, J Guidance Control Dyn **21**(5) 767-773 (Sep-Oct 1998), 3T383
Boundary controllability of a hybrid system consisting in two flexible beams connected by a point mass, SIAM J Control Optim **36**(5) 1576-1595 (Sep 1998), 3T408
Observer design for a special class of nonlinear systems, Int J Control **71**(3) 405-418 (Oct 1998), 4T346
Sensor and actuator placement for modal identification, Mech Syst Signal Processing **12**(5) 641-659 (Sep 1998), 4A360
Exact controllability and boundary stabilization of torsional vibrations of an internally damped flexible space structure, J Optim Theory Appl **99**(2) 423-442 (Nov 1998), 5T316
Sliding mode observers via equivalent control approach, Int J Control **71**(6) 1051-1067 (Dec 1998), 6A394
Design of reduced-order multirate observers and stabilizing multirate controllers via singular perturbation theory, Optimal Control Appl Methods **19**(6) 435-445 (Nov-Dec 1998), 8T400
Boundary observability, controllability, and stabilization of linear elastodynamic systems, SIAM J Control Optim **27**(2) 521-542 (Nov 1998), 9T387
Controllability of nonlinear evolution systems with preassigned responses, J Optim Theory Appl **100**(2) 265-285 (Feb 1999), 9T388
Discrete-time singular observers: H_2-H_∞ optimality and unknown inputs, Int J Control **72**(6) 481-492 (Apr 1999), 9T434
Behavioral approach to control of distributed systems, SIAM J Control Optim **27**(2) 388-408 (Nov 1998), 9T448
Controllability of second-order semilinear infinite-dimensional dynamical systems, Appl Math Comp Sci **8**(3) 459-470 (1998), 10T379
Optimal control of 2D linear system with quadratic performance metric and nonmetric on trajectory and control (Polish), Matematyka Stosowana **40** 21-29 (1997), 10T380
Study on controllability and observability for thin plate system with parameter uncertainty, Chinese J Mech Eng **11**(3) 223-230 (Sep 1998), 10A381
Analytic controllability of a linear hybrid system, SIAM J Control Optim **37**(3) 844-868 (Feb 1999), 11T343
Controllability of 2D continuous-discrete systems with delays in control, Bull Polish Acad Sci Tech Sci **46**(3) 363-373 (1998), 11A344
Local controllability of 2D nonlinear systems, Bull Polish Acad Sci Tech Sci **47**(2) 153-161 (1999), 11A345
Reachability and controllability of positive linear systems with state feedbacks, Bull Polish Acad Sci Tech Sci **47**(1) 67-73 (1999), 11A346
Realization problem for singular 2D linear systems, Bull Polish Acad Sci Tech Sci **46**(3) 317-330 (1998), 11T347
Constrained controllability of dynamic systems, Appl Math Comp Sci **9**(2) 231-244 (1999), 12A349
Luenberger observer design for constrained mechanical systems, J Dyn Syst Meas Control **121**(2) 322-326 (Jun 1999), 12T356
Regularity of the minimum time function and minimum energy problems: The linear case, SIAM J Control Optim **37**(4) 1195-1221 (Apr 1999), 12T394

200D. Stability, robustness

Stability estimation of high dimensional vibrating systems under state delay feedback control, J Sound Vib **214**(3) 497-511 (Jul 1998), 1A135
Global stabilization of uncertain mechanical systems with bounded controls, Int J Robotics Autom **13**(2) 48-53 (1998), 1A345
Necessary conditions for robust stability of a class of nonlinear systems, Automatica **34**(6) 705-714 (Jun 1998), 1T346
Popov-type criterion for stability of nonlinear sampled-data systems, Automatica **34**(6) 671-682 (Jun 1998), 1T347
Exponential feedback passivity and stabilizability of nonlinear systems, Automatica **34**(6) 697-703 (Jun 1998), 1T381
Robustness and trade-offs in repetitive control, Automatica **34**(7) 889-896 (Jul 1998), 1T404
Optimal design of SDOF envelope systems for the responses of MDOF dynamic systems, Earthquake Eng Struct Dyn **27**(7) 661-672 (Jul 1998), 1A429
Boundary stabilization of coupled wave equations, Appl Math Comp Sci 7(3) 479-494 (1997), 2A461
Recent developments in 2D positive systems theory, Appl Math Comp Sci 7(4) 713-735 (1997), 2A462
Stability of nonlinear PD control, Appl Math Comp Sci 7(2) 273-292 (1997), 2T463
Uniform decay rates for solutions to a structural acoustics model with nonlinear dissipation, Appl Math Comp Sci **8**(2) 287-312 (1998), 2A464
μ-analysis and robust stability of positive linear systems, Appl Math Comp Sci **8**(2) 253-268 (1998), 2A465
Robust disturbance attenuation with stability for a class of uncertain signularly perturbed systems, Int J Control **70**(6) 873-891 (Aug 1998), 2T515
Robustness of the minimal control synthesis algorithm with minimal phase plant dynamics of unknown order but known relative degree, Int J Control **71**(1) 1-17 (Sep 1998), 2T516
System theory approach to mode coupling chatter in machining, J Dyn Syst Meas Control **120**(4) 545-547 (Dec 1998), 3A194
New robust stability results for linear systems with structured nonlinear perturbations, J Syst Control Eng **212**(I4) 241-247 (1998), 3T354
Parametrized Riccati equations associated to input-output operators for discrete-time systems with state-dependent noise, Stochastic Anal Appl **16**(5) 915-931 (1998), 3A355
Parametrized Riccati equations for controlled linear differential systems with jump Markov perturbations, Stochastic Anal Appl **16**(4) 661-682 (1998), 3T356
Stability and convergence characteristics of the Delayed-x LMS algorithm in ANC systems, J Sound Vib **216**(4) 637-648 (Oct 1998), 3A357
Robustness of nonlinear filters over the infinite time interval, SIAM J Control Optim **36**(5) 1618-1637 (Sep 1998), 3T367
Comparison of the stability and control problem of differential systems, Stochastic Anal Appl **16**(3) 533-551 (1998), 3A373
Stability analysis and design of fuzzy control systems (Chinese), J Xi'an Jiaotong Univ **32**(7) 24-26 (1998), 3A378
Robust stabilization of linear systems in the presence of Gaussian perturbation of parameters, Optimal Control Appl Methods **19**(4) 271-286 (Jul-Aug 1998), 4T347
Stable controller design based on dynamic recurrent neural networks (Chinese), J Shanghai Jiaotong Univ **32**(8) 49-54 (Aug 1998), 4A368
Partial Stability and Control (Birkhauser Boston, MA, 1998) 5R7
Analysis and optimization of stability robustness bounds for discretized systems, J Optim Theory Appl **99**(2) 331-358 (Nov 1998), 5T317
Necessary and sufficient condition for robust stability and stabilizability of continuous-time linear systems with Markovian jumps, J Optim Theory Appl **99**(2) 359-379 (Nov 1998), 5T318
Optimization of stability robustness bounds for linear discrete-time systems, J Optim Theory Appl **99**(2) 303-330 (Nov 1998), 5T319
Influence of control system input on system stability (Chinese), J Beijing IT **18**(4) 453-455 (Aug 1998), 5A354
Simplified framework for string stability analysis of automated vehicles, Vehicle Syst Dyn **30**(5) 375-405 (Nov 1998), 5A386
Regional eigenvalue-clustering robustness analysis for singular systems with structured parameter perturbations, J Syst Control Eng **212**(16) 467-471 (1998), 6T358
Passivity-based versus disturbance observer based robot control: Equivalence and stability, J Dyn Syst Meas Control **121**(1) 41-47 (Mar 1999), 6A468
Stability analysis of Baumgarte constraint stabilization technique multibody dynamic systems, J Guidance Control Dyn **22**(1) 161-162 (Jan-Feb 1999), 7T97
Robustness with respect to delays for exponential stability of distributed parameter systems, SIAM J Control Optim **37**(1) 230-244 (Sep-Nov 1998), 7T330
Application of the Nyquist stability criterion on the Nichols chart, J Guidance Control Dyn **22**(2) 360-362 (Mar-Apr 1999), 8T357
Liapunov-Krasovskii functionals for stability analysis of linear delay systems, Int J Control **72**(4) 374-384 (Mar 1999), 8T358
Minimum-phase robustness for second-order linear systems, J Guidance Control Dyn **22**(2) 229-234 (Mar-Apr 1999), 8A359
Robust and H_∞ stabilization of interconnected systems with delays, IEE Proc Control Theory Appl **145**(6) 559-567 (Nov 1998), 8T386
Discrete adaptive quasi-sliding mode control, Int J Control **72**(4) 365-373 (Mar 1999), 8A392
Frequency stability criteria of multivariable nonlinear control system (Chinese), J Xi'an Jiaotong Univ **33**(3) 15-18 (1999), 8A393
Analysis of the robustness margin of SISO control systems with plant parametric uncertainty, JSME Int J Ser C **40**(3) 400-405 (Sep 1997), 9A389
Lyapunov-like solutions to stability problems for discrete-time systems on asymptotically contractive sets, Nonlinear Dyn **18**(2) 107-127 (Feb 1999), 9T390
Maximal unidirectional perturbation bounds for robustness of uncertain singular systems, JSME Int J Ser C **41**(1) 83-89 (Mar 1998), 9A391
Plotting robust root loci for linear systems with multilinearly parametric uncertainties, Int J Control **72**(6) 501-511 (Apr 1999), 9T392
Positivity and stabilization of driver support systems, Control and Cybernetics **28**(1) 53-59 (1999), 9A393
Qualitative analysis of controlled drug resistance model: Inverse Laplace and semigroup approach, Control and Cybernetics **28**(1) 67-73 (1999), 9T394
Stability analysis of relaxed Dirichlet boundary control, Control and Cybernetics **28**(1) 35-51 (1999), 9A395
Strong stability of a model of an overhead crane, Control and Cybernetics **27**(3) 363-374 (1998), 9A396
Robust stability analysis of time delay control systems, JSME Int J Ser C **42**(1) 147-153 (Mar 1999), 9A451
Robust stabilization of singular systems including state delay via sliding mode control, JSME Int J Ser C **41**(2) 255-259 (Jun 1998), 9A452
Asymptotic stability analysis for collocated direct output feedback control of flexible systems, JSME Int J Ser C **40**(4) 709-716 (Dec 1997), 9A454
Active modal control and its robustness using point sensors and point actuators, JSME Int J Ser C **42**(1) 54-61 (Mar 1999), 9A974
Analytical design of stable continuous-time generalized predictive control, Appl Math Comp Sci **9**(1) 53-100 (1999), 10T382
Issues in the design of predictive controllers, Appl Math Comp Sci **9**(1) 9-24 (1999), 10A383
New multirate LQ optimal regulator for linear time-invariant systems and its stability robustness properties, Appl Math Comp Sci **8**(3) 529-584 (1998), 10A384
Robust predictive control using a time-varying Youla parameter, Appl Math Comp Sci **9**(1) 101-128 (1999), 10A385
Robust stability test for dynamic systems with short delays by using Pade approximation, Nonlinear Dyn **18**(3) 275-287 (Mar 1999), 10A386
Stability robustness of feedback linearizable systems with input unmodeled dynamics, IEE Proc Control Theory Appl **146**(1) 77-83 (Jan 1999), 10T387
New constraint stabilization technique for dynamic systems with nonholonomic constraints, J Guidance Control Dyn **22**(3) 497-499 (May-Jun 1999), 11T159
Exponential stability in mean-square of parabolic quasilinear stochastic delay evolution equations, Stochastic Anal Appl **17**(3) 443-461 (1999), 11A348
Piecewise-constant stabilization, SIAM J Control Optim **37**(3) 911-933 (Feb 1999), 11T349
Optimal compensation by linear robust control for uncertain systems, Dyn Control **9**(2) 135-148 (Apr 1999), 11A368
Exponential stabilization of state-delay systems, IEE Proc Control Theory Appl **146**(2) 131-136 (Mar 1999), 12T350
Feedback stabilization for a class of distributed semilinear control systems, Nonlinear Anal **37**(8) 953-969 (Sep 1999), 12T351
Method for evaluating stability bounds for discrete-time singularly perturbed systems, IEE Proc Control Theory Appl **146**(2) 227-233 (Mar 1999), 12T352
Robust stabilization for uncertain time-varying delay constrained systems with delay-dependence, Appl Math Comp Sci **9**(2) 293-311 (1999), 12A353
Robust stochastic stabilization of discrete-time linear systems with Markovian jumping parameters, J Dyn Syst Meas Control **121**(2) 331-334 (Jun 1999), 12A354
Robustness effects of a prefilter in a Smith predictor-based generalized predictive controller, IEE Proc Control Theory Appl **146**(2) 179-185 (Mar 1999), 12T355
Study on sliding mode state estimation, J Dyn Syst Meas Control **121**(2) 255-260 (Jun 1999), 12A360
Robust disturbance rejection for left-invertible linear systems with nonlinear-uncertain structure, J Dyn Syst Meas Control **121**(2) 218-225 (Jun 1999), 12A379
Absolute stabilization and minimax optimal control of uncertain systems with stochastic uncertainty, SIAM J Control Optim **37**(4) 1089-1122 (Apr 1999), 12T405
Simultaneous stabilization and pole assignment by two level controllers consisting of a gain feedback and a multirate input controller, J Dyn Syst Meas Control **121**(2) 302-305 (Jun 1999), 12A419

200E. Identification and estimation

Determination of modal residues and residual flexibility for time-domain system realization, J Guidance Control Dyn **21**(4) 588-594 (Jul-Aug 1998), 1T348
Hilbert transform approach in source identification via multiple-input single-output modeling for correlated inputs, Mech Syst Signal Processing **12**(4) 501-513 (Jul 1998), 1T349
Identification of a nonlinear electromagnetic system: An experimental study, J Sound Vib **214**(5) 853-871 (Jul 1998), 1A350
Identification of nonlinear systems using multi-scale ridges and skeletons of the wavelet transform, J Sound Vib **214**(4) 639-658 (Jul 1998), 1A351
Relationship between behavioral and standard methods for system identification, Automatica **34**(6) 801-804 (Jun 1998), 1T352
State and input estimation for a class of uncertain systems, Automatica **34**(6) 757-764 (Jun 1998), 1A353
State-space identification of vibrating systems from multi-output measurements, Mech Syst Signal Processing **12**(4) 543-558 (Jul 1998), 1T354
Unified approach to optimal state estimation for stochastic singular systems, Automatica **34**(6) 777-781 (Jun 1998), 1T355
Substructural dynamic modification using component receptance sensitivity, Mech Syst Signal Processing **12**(4) 525-541 (Jul 1998), 1T356
Approximate I-O feedback linearization of discrete-time nonlinear systems via virtual input direct design, Automatica **34**(6) 715-722 (Jun 1998), 1T389
Recursive deadbeat controller design, J Guidance Control Dyn **21**(4) 624-631 (Jul-Aug 1998), 1A401
Minimal-parameter attitude matrix estimation from vector observations, J Guidance Control Dyn **21**(4) 595-602 (Jul-Aug 1998), 1T413
Inverse emergent plane crack problem, Math Methods Appl Sci **21**(10) 895-906 (Jul 1998), 1A916
Multiple-criterion method for determining structural damage, AIAA J **36**(8) 1494-1501 (Aug 1998), 2A62
Experimentally verified nonlinear damping model for large amplitude random vibration of a clamped-clamped beam, J Sound Vib **215**(2) 343-379 (Aug 1998), 2A194
Eigenstructure assignment technique for damage detection in rotating structures, AIAA J **36**(9) 1680-1685 (Sep 1998), 2A466
Improved artificial neural network method for monitoring and diagnosis of engineering processes with applications, J Vib and Control **4**(5) 635-650 (Sep 1998), 2T467
Method for non-parametric damage detection through the use of neural networks, Earthquake Eng Struct Dyn **27**(9) 997-1010 (Sep 1998), 2A468
Multiple-damage location assurance criterion based on natural frequency changes, J Vib and Control **4**(5) 619-633 (Sep 1998), 2A469
Unity check method for structural damage detection, J Spacecraft Rockets **35**(4) 577-579 (Jul-Aug 1998), 2T470
Vector triggering random decrement for high identification accuracy, J Vib Acoust **120**(4) 970-975 (Oct 1998), 2A471
Estimation for nonlinear stochastic differential equations by a local linearization method, Stochastic Anal Appl **16**(4) 733-752 (1998), 3A80
Phase-space prediction of chaotic time series, Dyn Stability Syst **13**(3) 219-236 (1998), 3A111
Bispectral analysis of the bilinear oscillator with application to the detection of fatigue cracks, J Sound Vib **216**(5) 889-910 (Oct 1998), 3A132
Vibro-acoustic analysis and identification of defects in rotating machinery - Part I: Theoretical model, J Sound Vib **216**(4) 533-570 (Oct 1998), 3A180
Vibro-acoustic analysis and identification of defects in rotating machinery - Part II: Experimental study, J Sound Vib **216**(4) 571-583 (Oct 1998), 3A181
Structural damage detection by a sensitivity and statistical-based method, J Sound Vib **216**(5) 791-808 (Oct 1998), 3A187
Vibration parameters identification in a spacecraft subjected to active vibration damping, Mechatronics **8**(6) 691-705 (Sep 1998), 3A197
Constrained and regularized system identification, Model Ident Control **19**(2) 109-116 (Apr 1998), 3T358
Dynamic system calibration: The low primary output sampling rate case, Model Ident Control **19**(2) 99-107 (Apr 1998), 3A359

Dynamic system multivariate calibration by system identification method, Model Ident Control **19**(2) 77-97 (Apr 1998), 3T360
Identification of local nonlinear parameters of a dynamic system by dynamic programming (Chinese), J Vib Eng **11**(3) 298-304 (Sep 1998), 3T361
Ill-conditioned covariance matrices in the first-order two-step estimator, J Guidance Control Dyn **21**(5) 754-760 (Sep-Oct 1998), 3T362
State and parameter identification scheme for linearly parameterized systems, J Dyn Syst Meas Control **120**(4) 524-528 (Dec 1998), 3A363
Adaptive control of nonlinear, uncertain systems using local function estimation, J Dyn Syst Meas Control **120**(4) 429-438 (Dec 1998), 3A391
Minimal state-space model realization of a nonlinear helicopter, IEE Proc Control Theory Appl **145**(4) 415-422 (Jul 1998), 3A415
Identifying damping of a gyroscopic system through the half-power method and its applications to rotating disk-spindle systems, J Vib Acoust **121**(1) 70-77 (Jan 1999), 4A129
Structural modal testing with various actuators and sensors, Mech Syst Signal Processing **12**(5) 627-639 (Sep 1998), 4A183
Time domain model of the vertical dynamics of a railway track up to 5 kHz, Vehicle Syst Dyn **30**(1) 1-15 (Jul 1998), 4A192
Application of genetic algorithms to system identification (Chinese), J Huazhong Univ Sci Tech **26**(7) 57-58 (Jul 1998), 4A348
Application of wavelet model in system identification (Chinese), J Shanghai Jiaotong Univ **32**(8) 66-68 (Aug 1998), 4A349
Comparative study of maximum likelihood estimators for nonlinear dynamical system models, Int J Control **71**(3) 391-404 (Oct 1998), 4T350
Comparison study of subspace identification methods applied to flexible structures, Mech Syst Signal Processing **12**(5) 679-692 (Sep 1998), 4T351
Dynamic parameter estimation of a MacPherson strut suspension, Vehicle Syst Dyn **30**(2) 169-184 (Aug 1998), 4A352
Fast algorithm of robust identification in l^1 (Chinese), J Huazhong Univ Sci Tech **26**(S1) 72-74 (May 1998), 4A353
Fast identification of parameters in optical systems, J Optim Theory Appl **99**(1) 73-101 (Oct 1998), 4T354
Identification of lateral dynamics and parameter estimation of heavy vehicles, Mech Syst Signal Processing **12**(5) 611-626 (Sep 1998), 4A355
Input disturbance estimation in the bounded noise context, Int J Control **71**(3) 505-516 (Oct 1998), 4T356
Linear system parameter estimation using improved convex polyhedral description method (Chinese), J Xi'an Jiaotong Univ **32**(10) 5-8 (1998), 4A357
New method of robot parameter identification (Chinese), J Huazhong Univ Sci Tech **26**(S1) 75-77 (May 1998), 4A358
Response spectral densities and identification of a randomly excited nonlinear squeeze film oscillator, Mech Syst Signal Processing **12**(5) 693-711 (Sep 1998), 4A359
Sensor and actuator placement for modal identification, Mech Syst Signal Processing **12**(5) 641-659 (Sep 1998), 4A360
Frequency-domain properties applied to optimal estiamtion and smoothing of systems involving model mismatches (Chinese), J Xi'an Jiaotong Univ **32**(10) 79-82 (1998), 4A362
Reconstruction of a finite sum of sinusoids from nonuniform periodic samples, Int J Control **71**(4) 615-629 (Nov 1998), 4T378
Force-state mapping method of a chaotic dynamical system, J Sound Vib **218**(3) 405-418 (Dec 1998), 5A88
Exact adjustment of dynamic forces in presence of nonlinear feedback and singularity - Theory and algorithm, J Sound Vib **218**(1) 1-27 (Nov 1998), 5A157
Development and flight testing of a parameter identification algorithm for reconfigurable control, J Guidance Control Dyn **21**(6) 948-956 (Nov-Dec 1998), 5A320
Fault detection and monitoring of a ball bearing benchtest and a production machine via autoregressive spectrum analysis, J Sound Vib **218**(3) 501-525 (Dec 1998), 5A321
Identification of dynamic system using neural network, Facta Univ Architec Civil Eng **1**(4) 525-532 (1997), 5A322
Identification of nonlinear hysteretic isolators from periodic vibration tests, J Sound Vib **217**(4) 737-756 (Nov 1998), 5A323
Inverse pseudo excitation method for loading identification of stationary random vibration (Chinese), Chinese J Comput Mech **15**(4) 395-400 (Nov 1998), 5T324
Memory-matrix-based identification methodology for structural and mechanical systems, Earthquake Eng Struct Dyn **27**(12) 1465-1481 (Dec 1998), 5A325
Nonparametric identification of nonlinear biomedical systems - Part I: Theory, Critical Rev Biomed Eng **26**(3) 153-226 (1998), 5A326
Structural damage identification: A probabilistic approach, AIAA J **36**(11) 2137-2145 (Nov 1998), 5A327
Wavelet-processed flight data for robust aeroservoelastic stability margins, J Guidance Control Dyn **21**(6) 823-829 (Nov-Dec 1998), 5T1113
Identification of the impact location on a plate using wavelets, Mech Syst Signal Processing **12**(6) 783-795 (Nov 1998), 6A160
Development of the experimental spatial matrix identification method: Theory and basic verification with a frame structure, J Sound Vib **219**(1) 5-22 (Jan 1999), 6A181
System identification of linear MDOF structures under ambient excitation, Earthquake Eng Struct Dyn **28**(1) 61-77 (Jan 1999), 6A192
Autocoherent spectrum- a useful spectral estimator for vibration analysis of rotating machinery: Accurate estimation and cancellation of pure tones, Mech Syst Signal Processing **12**(6) 753-768 (Nov 1998), 6A201
Application of multilayer feedforward networks to the parameter identification of non-uniform media (Chinese), J Huazhong Univ Sci Tech **26**(10) 19-21 (Oct 1998), 6A330
Comments on "On the physical interpretation of proper orthogonal modes in vibrations", J Sound Vib **219**(1) 189-192 (Jan 1999), 6T331
Development of a coupled approach for structural damage detection with incomplete measurements, AIAA J **36**(12) 2209-2217 (Dec 1998), 6A332
Modal parameter estimation and model order selection of a randomly vibrating system, Mech Syst Signal Processing **12**(6) 825-838 (Nov 1998), 6A333
Real-time modal parameter estimation using subspace methods: Theory, Mech Syst Signal Processing **12**(6) 797-808 (Nov 1998), 6T334
Real-time modal parameter estimation using subspace methods: Applications, Mech Syst Signal Processing **12**(6) 809-823 (Nov 1998), 6T335
Reduced-dimensionality geometric approach to fault identification in stochastic structural systems, AIAA J **36**(12) 2250-2256 (Dec 1998), 6A336
Rigid body and nonlinear mount identification: Application to onboard equipment with hysteretic suspension, J Vib and Control **5**(1) 75-94 (Jan 1999), 6A337
Structural damage localization from modal strain energy change, J Sound Vib **218**(5) 825-844 (Dec 1998), 6A338
Identification of linear parameter-varying systems using nonlinear programming, J Dyn Syst Meas Control **121**(1) 71-78 (Mar 1999), 6A363
Lane geometry perception and the characterization of its associated uncertainty, J Dyn Syst Meas Control **121**(1) 1-9 (Mar 1999), 6A405
Intelligent detection of drill wear, Mech Syst Signal Processing **12**(6) 863-873 (Nov 1998), 6A1095
Inverse method for the identification of a distributed random excitation acting on a vibrating structure - Part I: Theory, Mech Syst Signal Processing **13**(1) 53-65 (Jan 1999), 7T331
Inverse method for the identification of a distributed random excitation acting on a vibrating structure - Part II: Flow-induced vibration application, Mech Syst Signal Processing **13**(1) 67-81 (Jan 1999), 7T332
Method for identification of nonlinear multi-dof systems, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 287-298 (1998), 7A333
State space identification of stable systems, Int J Control **72**(3) 193-205 (Feb 1999), 7T334
Estimation of the nonlinear suspension tire cornering forces from experimental road test data, Vehicle Syst Dyn **31**(1) 23-34 (Jan 1999), 7A873
Empirical distribution for linear system identification, Stochastic Anal Appl **17**(2) 295-313 (1999), 8A360
Estimating Markov transition matrices using uncertain observed states, Stochastic Anal Appl **17**(2) 253-274 (1999), 8A361
Experimental nonlinear identification of a single mode of a transversely excited beam, Nonlinear Dyn **18**(1) 69-87 (Jan 1999), 8T362
Feasibility of identifying nonlinear vibratory systems consisting of unknown polynomial forms, J Sound Vib **220**(3) 413-450 (Feb 1999), 8A363
Nonlinear system identification by subset optimization (Chinese), J Xi'an Jiaotong Univ **33**(3) 19-22 (1999), 8A364
Parameter identification of induction motor model using genetic algorithms, IEE Proc Control Theory Appl **145**(6) 587-593 (Nov 1998), 8A365
State estimator design for multimodal adjustment process using genetic algorithm, Mechatronics **9**(2) 163-183 (Mar 1999), 8T366
NARMAX modeling and robust control of internal combustion engines, Int J Control **72**(4) 289-304 (Mar 1999), 8A432
Status monitoring in flexible manipulators, IEE Proc Control Theory Appl **145**(6) 537-550 (Nov 1998), 8A453
Identification of nonlinear vibration system by a neural network, JSME Int J Ser C **41**(3) 570-576 (Sep 1998), 9A397
Nonlinear parameter estimation using Volterra and Wiener theories, J Sound Vib **221**(5) 805-821 (Apr 1999), 9A398
Experimental identification technique of nonlinear beams in time domain, Nonlinear Dyn **18**(2) 185-202 (Feb 1999), 9A424
Adaptive control through on-line optimization: The model predictive control and identification paradigm and variants, Appl Math Comp Sci **9**(1) 25-52 (1999), 10T388
Comparative study of neural network structures in identification of nonlinear systems, Mechatronics **9**(3) 287-300 (Apr 1999), 10A389
Identification of a dynamical system with input nonlinearity, IEE Proc Control Theory Appl **146**(1) 41-51 (Jan 1999), 10A390
Issues in nonlinear parameter estimation and multivariate model discrimination: Applications in polymer reaction engineering, Appl Math Comp Sci **8**(4) 815-840 (1998), 10A391
Multiharmonic perturbations for nonparametric autotuning, IEE Proc Control Theory Appl **146**(1) 1-8 (Jan 1999), 10A392
Source identification in distributed parameter systems, Appl Math Comp Sci **8**(4) 733-754 (1998), 10A393
Multiple model approaches to modeling and control, Int J Control **72**(7-8) 576-754 (May 1999), 10A396
Milling cutter breakage detection by the discrete wavelet transform, Mechatronics **9**(3) 225-234 (Apr 1999), 10T467
Prediction of machine deterioration using vibration based fault trends and recurrent neural networks, J Vib Acoust **121**(3) 355-362 (Jul 1999), 10A474
In-situ identification method for joint parameters in mechanical structures, J Vib Acoust **121**(3) 363-372 (Jul 1999), 10A1056
Testing and modeling gas turbines using multisine signals and frequency-domain techniques, J Eng Gas Turbines Power **121**(3) 451-457 (Jul 1999), 10A1476
Damage diagnosis of rotors: Application of Hilbert transform and multihypothesis testing, J Vib and Control **5**(3) 421-442 (May 1999), 11A350
Reduced-order observer for systems with piecewise constant inputs, Optimal Control Appl Methods **20**(1) 51-58 (Jan-Feb 1999), 11A351
Luenberger observer design for constrained mechanical systems, J Dyn Syst Meas Control **121**(2) 322-326 (Jun 1999), 12T356
Neurofuzzy state identification using prefiltering, IEE Proc Control Theory Appl **146**(2) 234-240 (Mar 1999), 12T357
Parameter simulation in the thermal system using a kind of improved artificial neural network based on the BP algorithm (Chinese), J Shanghai Jiaotong Univ **33**(3) 301-304 (Mar 1999), 12A358
State and information estimation for linear and nonlinear systems, J Dyn Syst Meas Control **121**(2) 318-320 (Jun 1999), 12A359
Study on sliding mode state estimation, J Dyn Syst Meas Control **121**(2) 255-260 (Jun 1999), 12A360
Evolutionary programming algorithm for load modeling and parameter identification (Chinese), J Tsinghua Univ Sci Tech **39**(3) 37-40 (Mar 1999), 12A363
Modeling of piezo actuator's nonlinear and frequency dependent dynamics, Mechatronics **9**(4) 391-410 (Jun 1999), 12A443

200F. Sensitivity

Substructural dynamic modification using component receptance sensitivity, Mech Syst Signal Processing **12**(4) 525-541 (Jul 1998), 1T356
Sensitivity analysis of frame structures and its applications to structural design (Chinese), J Dalian Univ Tech **38**(4) 426-431 (Jul 1998), 1A1007
Zeros of structural frequency response functions and their sensitivities, Mech Syst Signal Processing **12**(5) 591-597 (Sep 1998), 4A361
Analysis of sensitivity measures of finite-precision digital controller structures with closed-loop stability bounds, IEE Proc Control Theory Appl **145**(5) 472-478 (Sep 1998), 6T339
Sensitivity of trajectory prediction in air traffic management, J Guidance Control Dyn **22**(2) 219-228 (Mar-Apr 1999), 8A416
Application of the classical implicit function theorem in sensitivity analysis of parametric optimal control, Control and Cybernetics **27**(3) 335-352 (1998), 9T399
Characterizing sensitivity-based and traditional formulations for quantitative feedback theory, Int J Control **72**(6) 536-545 (Apr 1999), 9T400
Predictive control sensitivity, Bull Polish Acad Sci Tech Sci **46**(3) 343-351 (1998), 11A352

200G. Filtering techniques

Finite-dimensional filters for passive tracking of Markov jump linear systems, Automatica **34**(6) 765-770 (Jun 1998), 1T357
Comparison of four filtering options for a radar tracking problem, J Guidance Control Dyn **21**(4) 618-623 (Jul-Aug 1998), 1T410
Microelectromechanical filters for signal processing, J Microelectromechanical Syst **7**(3) 286-294 (Sep 1998), 2T545
Dynamic system multivariate calibration by system identification method, Model Ident Control **19**(2) 77-97 (Apr 1998), 3T360
Liner filtering with fractional Brownian motion, Stochastic Anal Appl **16**(5) 907-914 (1998), 3A364
Nonlinear filtering and control of a switching diffusion with small observation noise, SIAM J Control Optim **36**(5) 1638-1668 (Sep 1998), 3T365
Nonlinear filtering of an interactive multiple model with small observation noise: Numerical methods, Stochastic Anal Appl **16**(4) 631-659 (1998), 3A366
Robustness of nonlinear filters over the infinite time interval, SIAM J Control Optim **36**(5) 1618-1637 (Sep 1998), 3T367
Zakai equations for Hilbert space valued processes, Stochastic Anal Appl **16**(4) 597-605 (1998), 3T368
Frequency-domain properties applied to optimal estiamtion and smoothing of systems involving model mismatches (Chinese), J Xi'an Jiaotong Univ **32**(10) 79-82 (1998), 4A362
Application of LTR design in fault detection, Optimal Control Appl Methods **19**(4) 215-225 (Jul-Aug 1998), 4A428
Adaptive determination of filter scales for edge detection (Chinese), J Xi'an Jiaotong Univ **32**(11) 20-23 (1998), 5A328
Underrelaxation scheme for a fast adaptive filter (Chinese), J Xi'an Jiaotong Univ **32**(11) 1-3 (1998), 5A329
System identification of linear MDOF structures under ambient excitation, Earthquake Eng Struct Dyn **28**(1) 61-77 (Jan 1999), 6A192
Design of optimal reduced order filter for unstable discrete time systems, IEE Proc Control Theory Appl **145**(5) 397-404 (Sep 1998), 6A340
Filtered reference and filtered error LMS algorithms for adaptive feedforward control, Mech Syst Signal Processing **12**(6) 769-781 (Nov 1998), 6T385
Lane geometry perception and the characterization of its associated uncertainty, J Dyn Syst Meas Control **121**(1) 1-9 (Mar 1999), 6A405
State space identification of stable systems, Int J Control **72**(3) 193-205 (Feb 1999), 7T334
Iterative SVD method for noise reduction of low-dimensional chaotic time series, Mech Syst Signal Processing **13**(1) 115-124 (Jan 1999), 7T335
Robust filter design with time-varying parameter uncertainty and error variance constraints, Int J Control **72**(1) 30-38 (Jan 1999), 7T336
H_∞ bounded fault detection filter, J Guidance Control Dyn **22**(1) 129-138 (Jan-Feb 1999), 7A401
Design of notch filters for structural responses with multiaxis coupling, J Guidance Control Dyn **22**(2) 349-357 (Mar-Apr 1999), 8T367
Nonlinear projection filter based on Galerkin approximation, J Guidance Control Dyn **22**(2) 258-266 (Mar-Apr 1999), 8T368
Currency recognition by using coordinate logic filter, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 81-83 (Dec 1998), 8A372
Optimal control and filtering for nonstandard singularly perturbed linear systems, J Guidance Control Dyn **22**(2) 362-365 (Mar-Apr 1999), 8T385
Efficient and optimal attitude determination using recursive global positioning system signal operations, J Guidance Control Dyn **22**(2) 193-201 (Mar-Apr 1999), 8A414
Initial leveling with input estimation, JSME Int J Ser C **41**(4) 774-780 (Dec 1998), 9A401
Micromechanical RF filters excited by the Lorentz force, J Micromech Microeng **9**(1) 78-84 (Mar 1999), 9T491
D-step ahead Kalman predictor for controlled autoregressive processes with random coefficients, Appl Math Comp Sci **9**(1) 207-217 (1999), 10A394
Heisenberg modeling procedure and applications to process control, Appl Math Comp Sci **8**(4) 755-773 (1998), 10A395
Filter approach to the stochastic analysis of MDOF wind-excited structures, Probab Eng Mech **14**(4) 311-321 (Oct 1999), 11A164
Adaptive distributed partitioning filters: Non-gaussian initial conditions, Stochastic Anal Appl **17**(3) 405-419 (1999), 11A353
Two signal processing problems involving coherent states methods, Reports Math Phys **43**(1-2) 341-356 (Feb-Apr 1999), 11A354
Robustness effects of a prefilter in a Smith predictor-based generalized predictive controller, IEE Proc Control Theory Appl **146**(2) 179-185 (Mar 1999), 12T355
Neurofuzzy state identification using prefiltering, IEE Proc Control Theory Appl **146**(2) 234-240 (Mar 1999), 12T357
State and information estimation for linear and nonlinear systems, J Dyn Syst Meas Control **121**(2) 318-320 (Jun 1999), 12A359
Filtering for interconnected nonlinear sampled-data systems with parametric uncertainties, J Vib and Control **5**(4) 591-618 (Jul 1999), 12A361

200H. Design methods

Development of proper models of hybrid systems, J Dyn Syst Meas Control **120**(3) 328-333 (Sep 1998), 1A359
Time-domain performance of multivariable systems in response to fixed inputs, Int J Control **71**(3) 437-458 (Oct 1998), 4A363
Compensator based output feedback sliding mode controller design, Int J Control **71**(4) 601-614 (Nov 1998), 4T398
Gain-weighted eigenspace assignment, J Guidance Control Dyn **21**(6) 1009-1012 (Nov-Dec 1998), 5T356
Robust approximate pole assignment for second-order systems: Neural network computation, J Guidance Control Dyn **21**(6) 923-929 (Nov-Dec 1998), 5A357
Stabilizing controller design for linear parameter-varying systems using parameter feedback, J Guidance Control Dyn **21**(6) 891-898 (Nov-Dec 1998), 5A359
Synthesis of real-time robust flexible structure controllers, J Guidance Control Dyn **21**(6) 1001-1004 (Nov-Dec 1998), 5T387
Design optimization of multibody systems by sequential approximation, Multibody Syst Dyn **2**(4) 393-415 (Dec 1998), 6A360
PID tuning for unstable processes based on gain and phase-margin specifications, IEE Proc Control Theory Appl **145**(5) 392-396 (Sep 1998), 6A390
Similarity and invariance in scaled bilateral telemanipulation, J Dyn Syst Meas Control **121**(1) 79-87 (Mar 1999), 6A470
Model reference robust control for non-minimum phase systems with disturbances, Int J Control **72**(2) 123-132 (Jan 1999), 7T355
Minimum-phase robustness for second-order linear systems, J Guidance Control Dyn **22**(2) 229-234 (Mar-Apr 1999), 8A359
Generalized plants for H_∞ robust controller design, J Guidance Control Dyn **22**(2) 366-369 (Mar-Apr 1999), 8T383
Design of reduced-order multirate observers and stabilizing multirate controllers via singular perturbation theory, Optimal Control Appl Methods **19**(6) 435-445 (Nov-Dec 1998), 8T400
Efficient, near-optimal control allocation, J Guidance Control Dyn **22**(2) 369-372 (Mar-Apr 1999), 8T401
PID tuning based on loop-shaping H_∞ control, IEE Proc Control Theory Appl **145**(6) 485-490 (Nov 1998), 8A406
Optimal filtering of discrete-time hybrid systems, J Optim Theory Appl **100**(1) 123-144 (Jan 1999), 9T402
Stability based neural networks controller design method, Control and Cybernetics **27**(1) 119-133 (1998), 9T403
Multiharmonic perturbations for nonparametric autotuning, IEE Proc Control Theory Appl **146**(1) 1-8 (Jan 1999), 10A392
Multiple model approaches to modeling and control, Int J Control **72**(7-8) 576-754 (May 1999), 10A396
Design method and application for fuzzy logical controller based on L_∞ Lyapunov functions, IEE Proc Control Theory Appl **146**(1) 17-24 (Jan 1999), 10T433
Genetic approach to decentralized PI controller tuning for multivariable processes, IEE Proc Control Theory Appl **146**(1) 58-64 (Jan 1999), 10A436
Controller design of periodic time-varying systems via time-invariant methods, J Guidance Control Dyn **22**(3) 486-488 (May-Jun 1999), 11T371
Robust LTV feedback synthesis for nonlinear MIMO plants, J Dyn Syst Meas Control **121**(2) 226-232 (Jun 1999), 12A380
General approach to control-configured-plant design-redesign, IEE Proc Control Theory Appl **146**(2) 197-203 (Mar 1999), 12T410
Generalized optimal zero phase error tracking controller design, J Dyn Syst Meas Control **121**(2) 165-170 (Jun 1999), 12A411
Method for optimizing set-point weights in ISA-PID autotuners, IEE Proc Control Theory Appl **146**(2) 137-146 (Mar 1999), 12T414

200I. Modelling and simulation

Determination of modal residues and residual flexibility for time-domain system realization, J Guidance Control Dyn **21**(4) 588-594 (Jul-Aug 1998), 1T348
Connection theory and its development tool (Chinese), J Shanghai Jiaotong Univ **32**(5) 69-73 (May 1998), 1A358
Development of proper models of hybrid systems, J Dyn Syst Meas Control **120**(3) 328-333 (Sep 1998), 1A359
Analogue solution to the modeling and simulation of distributed-lumped parameter systems, J Syst Control Eng **212**(I2) 99-114 (1998), 1A373
Algorithm for approximate model matching for loops with non-negligible feedback dynamics, J Dyn Syst Meas Control **120**(3) 394-398 (Sep 1998), 1A388
Comparison and validation of dynamics simulation models for a structurally flexible manipulator, J Dyn Syst Meas Control **120**(3) 404-409 (Sep 1998), 1A420
Automatic model generation for modular reconfigurable robot dynamics, J Dyn Syst Meas Control **120**(3) 346-352 (Sep 1998), 1A458
Knowledge-based simulation design of fuel-pump (Chinese), J Shanghai Jiaotong Univ **32**(5) 104-107 (May 1998), 1A488
Representation for planar point contact joints in the multibody mechanical bond graph library, J Syst Control Eng **212**(I4) 305-312 (1998), 3A369
Singular perturbation approach for modeling differential-algebraic systems, J Dyn Syst Meas Control **120**(4) 541-545 (Dec 1998), 3A370
Identification of lateral dynamics and parameter estimation of heavy vehicles, Mech Syst Signal Processing **12**(5) 611-626 (Sep 1998), 4A355
Zero dynamics of physical systems from bond graph models - Part I: SISO systems, J Dyn Syst Meas Control **121**(1) 10-17 (Mar 1999), 6A341
Zero dynamics of physical systems from bond graph models - Part II: MIMO systems, J Dyn Syst Meas Control **121**(1) 18-26 (Mar 1999), 6A342
Analytical approach for using simulation in real-time decision making in FMSs, J Manuf Syst **17**(6) 418-435 (1998), 6A484
Optimal weighted L_2 model reduction of delay systems, Int J Control **72**(1) 39-48 (Jan 1999), 7T337
Efficient simulation of motions involving Coulomb friction, J Guidance Control Dyn **22**(1) 78-86 (Jan-Feb 1999), 7A887
Model reduction with a finite horizon H_∞ criterion, J Guidance Control Dyn **22**(2) 251-257 (Mar-Apr 1999), 8T384
Force as a flow variable, J Syst Control Eng **213**(I1) 77-81 (1999), 9T8
Order reduction by the discrete-time least-squares Pade method, J Syst Control Eng **213**(I1) 61-64 (1999), 9T404
Multiple model approaches to modeling and control, Int J Control **72**(7-8) 576-754 (May 1999), 10A396
Dynamic system characterization via eigenvalue orbits, J Guidance Control Dyn **22**(3) 447-454 (May-Jun 1999), 11A355
Hybrid modeling for mechanical systems: Methodologies and applications, J Dyn Syst Meas Control **121**(2) 270-277 (Jun 1999), 12A362
Simplified modeling and dynamic analysis of a Law's relay actuator, Mechatronics **9**(5) 463-475 (Aug 1999), 12T482
Dynamic model for condition monitoring of a high-power CO_2 industrial laser, J Dyn Syst Meas Control **121**(2) 157-164 (Jun 1999), 12A1279

200J. Adaptive and learning systems

Identification of nonlinear characteristics in cushioning packaging using genetic evolutionary neural networks, Mech Res Commun **25**(4) 395-403 (Jul-Aug 1998), 1T126
Adaptive algorithm for the tuning of two input shaping methods, Automatica **34**(6) 771-776 (Jun 1998), 1A360
Adaptive robust control under unknown plant orders, Automatica **34**(6) 723-730 (Jun 1998), 1A387
Design of robust adaptive controllers for nonlinear systems with dynamic uncertainties, Automatica **34**(7) 825-840 (Jul 1998), 1A390
Suboptimal N-step-ahead cautious controller for adaptive control applications, J Dyn Syst Meas Control **120**(3) 419-423 (Sep 1998), 1A406
Control chart pattern recognition using a new type of self-organizing neural network, J Syst Control Eng **212**(I2) 115-127 (1998), 1T440
Active noise cancellation for a 3D enclosure by using multiple-channel adaptive control and H_∞ control, J Vib Acoust **120**(4) 958-964 (Oct 1998), 2A415
Recognition of base-plate acceleration feedback embedded in stage positioning control system (Japanese), J Japan Soc Precision Eng **64**(7) 1017-1021 (Jul 1998), 2T472
Special issue on learning in autonomous robots, Autonomous Robots **5**(3-4) 239-420 (Jul-Aug 1998), 2T473
Dynamical robust adaptive tracking for uncertain nonlinear systems, Int J Control **70**(6) 921-939 (Aug 1998), 2A496
Adaptive robust backstepping control schemes suitable for PM synchronous motors, Int J Control **70**(6) 893-920 (Aug 1998), 2A506
Improved dual version of the generalized minimum variance controller, Int J Control **71**(1) 131-143 (Sep 1998), 2T512
Vehicle velocity control using fuzzy self-tuning method, Vehicle Syst Dyn **29**(5) 331-338 (May 1998), 2A532
Reliability optimization design of ICE parts based on neural networks (Chinese), J Huazhong Univ Sci Tech **26**(5) 63-65 (May 1998), 2A951
State and parameter identification scheme for linearly parameterized systems, J Dyn Syst Meas Control **120**(4) 524-528 (Dec 1998), 3A363
Application of learning to high-speed robotic manipulators, J Syst Control Eng **212**(I4) 315-323 (1998), 3T371
Adaptive control of nonlinear, uncertain systems using local function estimation, J Dyn Syst Meas Control **120**(4) 429-438 (Dec 1998), 3A391
Applications of adaptive controllers to systems with nonlinear parametrization, J Dyn Syst Meas Control **120**(4) 477-487 (Dec 1998), 3A392
Adaptive asymptotic tracking of spacecraft attitude motion with inertia matrix identification, J Guidance Control Dyn **21**(5) 684-691 (Sep-Oct 1998), 3A402
Adaptive robust tracking for flexible spacecraft in presence of disturbances, J Optim Theory Appl **98**(3) 545-568 (Sep 1998), 3A403
Robust, digital, nonlinear control of magnetic-levitation systems, J Dyn Syst Meas Control **120**(4) 488-495 (Dec 1998), 3A436
Fast learning algorithm based on local adjustment for fuzzy-neural network (Chinese), J Shanghai Jiaotong Univ **32**(8) 58-62 (Aug 1998), 4A364
Fuzzy based decision-based neural network (Chinese), J Shanghai Jiaotong Univ **32**(8) 31-35 (Aug 1998), 4A365
Modeling of object-oriented p-adaptive analysis system and its implementation (Chinese), J Huazhong Univ Sci Tech **26**(8) 4-6 (Aug 1998), 4A366
Research on synergetic learning algorithms (Chinese), J Shanghai Jiaotong Univ **32**(8) 26-30 (Aug 1998), 4A367
Stable controller design based on dynamic recurrent neural networks (Chinese), J Shanghai Jiaotong Univ **32**(8) 49-54 (Aug 1998), 4A368
Algorithm and application of structure equivalent neuro-fuzzy network, J Huazhong Univ Sci Tech **26**(8) 77-80 (Aug 1998), 4A374
Robust adaptive control of uncertain nonlinear systems (Chinese), J Shanghai Jiaotong Univ **32**(6) 88-93 (Jun 1998), 4A394
Adaptive linear quadratic Gaussian control: The cost-biased approach revisited, SIAM J Control Optim **36**(6) 1890-1907 (Nov 1998), 4T396
Synthetic intelligent system for failure diagnosis (Chinese), J Shanghai Jiaotong Univ **32**(6) 14-18 (Jun 1998), 4A433
Approximation of dynamic system by recurrent neural network (Chinese), J Beijing IT **18**(2) 206-211 (Apr 1998), 5A330
Most suitable architecture of hidden-layer in BP neural networks for function approximation (Chinese), J Beijing IT **18**(4) 476-480 (Aug 1998), 5A331
Self-learning qualitative control for continuous system with uncertain model parameters (Chinese), J Xi'an Jiaotong Univ **32**(11) 4-7 (1998), 5A332
Application of neural network and genetic algorithm in face detection (Chinese), J Shanghai Jiaotong Univ **32**(9) 93-96 (Sep 1998), 5A334
Classification of remote sensing images using BP neural network with dynamic learning rate (Chinese), J Beijing IT **18**(4) 485-488 (Aug 1998), 5A335
Output feedback variable structure adaptive control of an aeroelastic system, J Guidance Control Dyn **21**(6) 830-837 (Nov-Dec 1998), 5A384
Application of combination of neural network and fuzzy fault diagnosis expert system (Chinese), J Beijing IT **18**(1) 81-86 (Feb 1998), 5A392
Neural network model for forecasting peak acceleration of blasting vibration (Chinese), J Beijing IT **18**(4) 472-475 (Aug 1998), 5A617
Direct adaptive control of complex dynamic systems using neural networks (Chinese), J Xi'an Jiaotong Univ **32**(12) 51-54 (1998), 6A343
Model reference adaptive control of long stroke precision positioning systems with piecewise linear gain, Int J Japan Soc Precision Eng **32**(3) 200-206 (Sep 1998), 6A344
Simplified model of fuzzy neural network (Chinese), J Huazhong Univ Sci Tech **26**(9) 30-33 (Sep 1998), 6A345
Theoretical research on neural networks in application to dynamic system modeling (Chinese), J Tsinghua Univ Sci Tech **38**(8) 25-30 (Aug 1998), 6A346
Learning algorithm of synergetic neural network based on cluster algorithm (Chinese), J Shanghai Jiaotong Univ **32**(10) 39-41 (Oct 1998), 6A349
Autotuning gain parameter implementation with fuzzy learning control scheme for DC brushless servo system, IEE Proc Control Theory Appl **145**(5) 419-427 (Sep 1998), 6A381
Disturbance attenuating adaptive controllers for parametric strict feedback nonlinear systems with output measurements, J Dyn Syst Meas Control **121**(1) 48-57 (Mar 1999), 6A383
Gain bounds in the minimal controller synthesis algorithm, J Syst Control Eng **212**(I5) 345-360 (1998), 6A386
Intelligent control on three-stage inverted pendulums, J Shanghai Univ **2**(4) 284-289 (Dec 1998), 6A399
Design of a hydraulic force control system using a generalized predictive control algorithm, IEE Proc Control Theory Appl **145**(5) 428-436 (Sep 1998), 6A414
Genetic learning of fuzzy reactive controllers, Robotics Autonomous Syst **25**(1-2) 33-41 (Oct 1998), 6A423
Adaptive neural network feedback control of a passive line-of-sight stabilization system, Mechatronics **8**(8) 887-903 (Dec 1998), 6A426
Continuous adaptive robust controllers guaranteeing uniform ultimate boundedness for uncertain nonlinear systems, Int J Control **72**(2) 115-122 (Jan 1999), 7T351
Application of adaptive matching pursuit to adaptive control of nonlinear dynamic systems, IEE Proc Control Theory Appl **145**(6) 575-582 (Nov 1998), 8T369
Rule regulation of indirect adaptive fuzzy controller design, IEE Proc Control Theory Appl **145**(6) 513-518 (Nov 1998), 8T370
Radial basis function network for elimination of noise from image (Chinese), J Xi'an Jiaotong Univ **33**(3) 10-14 (1999), 8A373
Model reference adaptive fuzzy control for one class of nonlinear systems (Chinese), J Shanghai Jiaotong Univ **32**(12) 120-123 (Dec 1998), 8A374
Adaptive control techniques for friction compensation, Mechatronics **9**(2) 125-145 (Mar 1999), 8A390
Discrete adaptive quasi-sliding mode control, Int J Control **72**(4) 365-373 (Mar 1999), 8A392
Design of an iterative learning controller for a class of linear dynamic systems with time delay, IEE Proc Control Theory Appl **145**(6) 507-512 (Nov 1998), 8A399
Heterogeneous intelligent control systems, IEE Proc Control Theory Appl **145**(6) 551-558 (Nov 1998), 8T403
Adaptive control of electrically driven space robots based on virtual decomposition, J Guidance Control Dyn **22**(2) 329-339 (Mar-Apr 1999), 8T418
Adaptive control of space structures via recurrent neural networks, Dyn Control **9**(1) 5-20 (Jan 1999), 8A419
Adaptive H_∞ neutral network tracking controller for electrically driven manipulators, IEE Proc Control Theory Appl **145**(6) 594-602 (Nov 1998), 8A420
Network fault detecting by the intelligent agent based on adaptive learning algorithm (Chinese), J Huazhong Univ Sci Tech **26**(12) 68-70 (Dec 1998), 8A452
Friction compensation using adaptive nonlinear control with persistent excitation, Int J Control **72**(5) 457-479 (Mar 1999), 8A455
Adaptive neural network based controller for robots, Mechatronics **9**(2) 147-162 (Mar 1999), 8A471
Improved neural network for predicting performance of centrifugal fans (Chinese), J Xi'an Jiaotong Univ **33**(3) 43-47 (1999), 8A1235
Identification of nonlinear vibration system by a neural network, JSME Int J Ser C **41**(3) 570-576 (Sep 1998), 9A397
Adaptive robust control for nonlinear systems with mismatched uncertainties, JSME Int J Ser C **41**(4) 751-758 (Dec 1998), 9A405
Fault tolerance of feedforward neural networks (Chinese), J Huazhong Univ Sci Tech **26**(SII) 22-24 (Nov 1998), 9A406
Learning method for multi-controller of robot behavior, JSME Int J Ser C **41**(2) 260-268 (Jun 1998), 9A407
Learning of rule importance for fuzzy controllers to deal with inconsistent rules and for rule elimination, Control and Cybernetics **27**(4) 521-543 (1998), 9T408
Gray dependent neural network of disparity gradient and its application in interpolation of perspective images, J Huazhong Univ Sci Tech **27**(1) 74-77 (Jan 1999), 9A409
Adaptive strategy for the damping parameters in an iteratively regularized Gauss-Newton method, J Optim Theory Appl **100**(1) 161-180 (Jan 1999), 9T420
New evolution strategy and its application to solving optimal control problems, JSME Int J Ser C **41**(3) 406-412 (Sep 1998), 9A439
Design of robust direct adaptive controllers for SISO systems: Time and frequency domain design conditions, Int J Control **72**(6) 517-530 (Apr 1999), 9A457
Hydraulic actuator control with open-center electro-hydraulic valve using a cerebellar model articulation controller neural network algorithm, J Syst Control Eng **213**(I1) 33-48 (1999), 9A472
Performance improvement of robot manipulator control using an on-line neural network compensator, J Syst Control Eng **213**(I1) 49-60 (1999), 9A473
Vehicle longitudinal control using throttles and brakes, Robotics Autonomous Syst **26**(4) 241-253 (Mar 1999), 9T477
Adaptive fuzzy logic control of a single-link flexible arm, JSME Int J Ser C **40**(4) 702-708 (Dec 1997), 9A527
Neuro-fuzzy controller design of the anti-lock braking system, JSME Int J Ser C **41**(4) 836-843 (Dec 1998), 9A1041
Analysis of the stability in disparity gradient neural network (Chinese), J Huazhong Univ Sci Tech **27**(2) 79-80 (Feb 1999), 10A397

Application of genetic algorithm to artificial neural network (Chinese), J Huazhong Univ Sci Tech **27**(2) 81-83 (Feb 1999), 10A398
New method for implementing integration of isomeric knowledge (Chinese), J Huazhong Univ Sci Tech **27**(2) 4-6 (Feb 1999), 10A399
Study of the fast learning algorithm of the T-S fuzzy RBF neural network (Chinese), J Huazhong Univ Sci Tech **27**(2) 84-86 (Feb 1999), 10A400
Two dimensional variable factor learning controller and its application in pneumatic servo system, Chinese J Mech Eng **11**(4) 271-276 (Dec 1998), 10A401
Research of a nonlinear and learning control algorithm based on Fourier series (Chinese), J Huazhong Univ Sci Tech **27**(2) 1-3 (Feb 1999), 10A428
Indirect adaptive control via parallel dynamic neural networks, IEE Proc Control Theory Appl **146**(1) 25-30 (Jan 1999), 10T437
Use of a recurrent neural network in discrete sliding-mode control, IEE Proc Control Theory Appl **146**(1) 84-90 (Jan 1999), 10A439
Model of probability neural network for handwriting signature identifying (Chinese), J Huazhong Univ Sci Tech **27**(5) 11-13 (May 1999), 11A358
Robust adaptive control of store release event for wings with external stores, J Guidance Control Dyn **22**(3) 408-414 (May-Jun 1999), 11A391
Automation in fault detection using neural network and model updating, J Brazilian Soc Mech Sci **21**(1) 99-108 (Mar 1999), 11A404
Fuzzy ART and its application to fault diagnosis (Chinese), J Xi'an Jiaotong Univ **33**(5) 88-92 (1999), 11A406
Adaptive control of free-flying space robot with position-attitude control system, J Guidance Control Dyn **22**(3) 488-490 (May-Jun 1999), 11T420
Parameter simulation in the thermal system using a kind of improved artificial neural network based on the BP algorithm (Chinese), J Shanghai Jiaotong Univ **33**(3) 301-304 (Mar 1999), 12A358
Evolutionary programming algorithm for load modeling and parameter identification (Chinese), J Tsinghua Univ Sci Tech **39**(3) 37-40 (Mar 1999), 12A363
Intelligent learning control for a class of nonlinear dynamic systems, IEE Proc Control Theory Appl **146**(2) 165-170 (Mar 1999), 12A364
Research of new learning method of feedforward neural network (Chinese), J Tsinghua Univ Sci Tech **39**(3) 1-3 (Mar 1999), 12A365
Pattern recognition and diagnosis of faults in electrical machines (Chinese), J Tsinghua Univ Sci Tech **39**(3) 72-74 (Mar 1999), 12A367
Minimum time trajectory optimization and learning, J Dyn Syst Meas Control **121**(2) 213-217 (Jun 1999), 12A428
Two-dof control with robust feedback control for hard disk servo systems, IEEE/ASME Trans Mechatronics **4**(1) 17-24 (Mar 1999), 12A485
Fault diagnosis of power electronic circuits using artificial neural networks (Chinese), J Tsinghua Univ Sci Tech **39**(3) 19-22 (Mar 1999), 12A499
Fault diagnosis of power transformer using neural network of decision tree (Chinese), J Xi'an Jiaotong Univ **33**(6) 11-16 (1999), 12A500
Performance improvement of industrial robot trajectory tracking using adaptive-learning scheme, J Dyn Syst Meas Control **121**(2) 285-292 (Jun 1999), 12A528
Direct model-reference adaptive control of variable speed horizontal-axis wind turbines, Wind Eng **22**(5) 209-218 (1998), 12T1252
Neural network method for predicting refrigeration compressor performance (Chinese), J Shanghai Jiaotong Univ **33**(3) 265-267 (Mar 1999), 12A1410

200K. Large scale systems

Hybrid control: Separation in design, J Sound Vib **214**(4) 784-791 (Jul 1998), 1T133

200L. Pattern recognition

Computation of displacement fields in noisy images, Machine Graphics & Vision **6**(3) 363-380 (1997), 1A361
Detecting multivariate outliers by a grand tour, Machine Graphics & Vision **6**(4) 487-505 (1997), 1T362
Efficient cross-dissolve transformation with elastic body spline warping interpolation for facial image morphing, Machine Graphics & Vision **7**(1-2) 397-406 (1998), 1T363
Experiments with morphological Markov random fields, Machine Graphics & Vision **7**(1-2) 205-220 (1998), 1A364
Face-dependent view model of convex polyhedra, Machine Graphics & Vision **7**(1-2) 325-334 (1998), 1T365
Image interpretation based on image processing and knowledge-guided data analysis, Machine Graphics & Vision **7**(1-2) 187-196 (1998), 1T366
Markov Random Fields and constrained optimization for textured image segmentation, Machine Graphics & Vision **7**(1-2) 259-268 (1998), 1A367
Medical image registration based on interactively identified anatomical landmark points, Machine Graphics & Vision **7**(1-2) 151-158 (1998), 1T368
Variational problems on flows of diffeomorphisms for image matching, Quart Appl Math **56**(3) 587-600 (Sep 1998), 1T369
Wavelet based algorithm for pattern analysis, Physica D **119**(3-4) 250-282 (Aug 1998), 1A370
Visualizing multi-sensor model-based object recognition, Machine Graphics & Vision **6**(3) 279-303 (1997), 1A475
Static image compression based on fractal theory, J Shanghai Univ **2**(3) 252-255 (Sep 1998), 3A372
Generation of digital Moire fringe pattern and its phase analysis (Chinese), J Huazhong Univ Sci Tech **26**(8) 64-66 (Aug 1998), 4A369
Model in fractal image encoding of range block classification (Chinese), J Huazhong Univ Sci Tech **26**(8) 70-73 (Aug 1998), 4A370
Perfect reconstruction of digital signal after the orthogonal and compactly supported wavelet transformation (Chinese), J Huazhong Univ Sci Tech **26**(S1) 91-92 (May 1998), 4A371
Realizations of fast 2D-3D image filtering and enhancement, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 108-112 (Jun 1998), 4A372
Synergetic-based PSRI pattern recognition method (Chinese), J Shanghai Jiaotong Univ **32**(6) 1-3 (Jun 1998), 4A373
Application of genetic algorithms in stereo image matching (Chinese), J Shanghai Jiaotong Univ **32**(9) 49-52 (Sep 1998), 5A333
Application of neural network and genetic algorithm in face detection (Chinese), J Shanghai Jiaotong Univ **32**(9) 93-96 (Sep 1998), 5A334
Classification of remote sensing images using BP neural network with dynamic learning rate (Chinese), J Beijing IT **18**(4) 485-488 (Aug 1998), 5A335
Computing root mean square radius of electrostatic imaging tubes and evaluating imaging quality (Chinese), J Beijing IT **18**(3) 331-335 (Jun 1998), 5A336
Finite difference method in image matching (Chinese), J Shanghai Jiaotong Univ **32**(9) 53-56 (Sep 1998), 5A337
Image progressive transmission method based on wavelet transform (Chinese), J Beijing IT **18**(1) 125-128 (Feb 1998), 5A338
Imprint recognition method based on Fourier descriptor (Chinese), J Shanghai Jiaotong Univ **32**(9) 43-45 (Sep 1998), 5A339
Multi-resolution segmentation of textured images using wavelet transforms (Chinese), J Beijing IT **18**(4) 467-471 (Aug 1998), 5A340
Multiresolution recognition of unconstrained handwritten numerals with multilayer cluster neural network (Chinese), J Shanghai Jiaotong Univ **32**(9) 35-39 (Sep 1998), 5A341
Probabilistic peaking effect of projected distance and its application to 3D object recognition (Chinese), J Shanghai Jiaotong Univ **32**(9) 103-106 (Sep 1998), 5A342
Real-time image coding system based on JPEG standard (Chinese), J Beijing IT **18**(2) 217-221 (Apr 1998), 5A343
Recognition of unconstrained handwritten numerals based on centroid layer feature (Chinese), J Shanghai Jiaotong Univ **32**(9) 31-34 (Sep 1998), 5A344
Recognition system for residential areas in maps (Chinese), J Shanghai Jiaotong Univ **32**(9) 90-92 (Sep 1998), 5A345
Registration method of seal imprint identification (Chinese), J Shanghai Jiaotong Univ **32**(9) 46-48 (Sep 1998), 5A346
Texture segmentation method based on wavelet and fuzzy theory (Chinese), J Shanghai Jiaotong Univ **32**(9) 40-42 (Sep 1998), 5A347
Algorithm for character extraction from vehicle image (Chinese), J Shanghai Jiaotong Univ **32**(10) 1-3 (Oct 1998), 6A347
Fast circle detection using randomized Hough transform (Chinese), J Shanghai Jiaotong Univ **32**(10) 17-20 (Oct 1998), 6A348
Learning algorithm of synergetic neural network based on cluster algorithm (Chinese), J Shanghai Jiaotong Univ **32**(10) 39-41 (Oct 1998), 6A349
Very low bit-rate video coding based on wavelet transform, J Shanghai Univ **2**(4) 270-274 (Dec 1998), 6A350
Recognition of 2D shapes using complex neural networks: A novel approach, J Eng Appl Sci **45**(5) 811-821 (Oct 1998), 7A338
Texture analysis of B scan image based on fractal dimension (Chinese), J Xi'an Jiaotong Univ **33**(1) 26-29 (1999), 7A339
Analysis of shape and texture for graphics (Chinese), J Xi'an Jiaotong Univ **33**(3) 1-4 (1999), 8A371
Currency recognition by using coordinate logic filter, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 81-83 (Dec 1998), 8A372
Radial basis function network for elimination of noise from image (Chinese), J Xi'an Jiaotong Univ **33**(3) 10-14 (1999), 8A373
Gray dependent neural network of disparity gradient and its application in interpolation of perspective images, J Huazhong Univ Sci Tech **27**(1) 74-77 (Jan 1999), 9A409
Mechanical parts range image segmentation by locating critical points of 1D curves, J Chinese Soc Mech Eng **20**(1) 21-27 (Feb 1999), 9A410
Numerical 3D shape inference from image brightness for non-Lambertian surface, JSME Int J Ser C **41**(4) 781-785 (Dec 1998), 9A411
Fractal encoding of images using central moments based tree search, J Eng Appl Sci **46**(1) 161-176 (Feb 1999), 10A402
Improved hierarchical vector quantizer of images (Chinese), J Huazhong Univ Sci Tech **27**(2) 95-97 (Feb 1999), 10A403
Novel image compression encoding (Chinese), J Huazhong Univ Sci Tech **27**(2) 90-91 (Feb 1999), 10A404
Segmenting the color image and detecting the edge by BP NN method (Chinese), J Huazhong Univ Sci Tech **27**(2) 87-89 (Feb 1999), 10A405
Compressing method for 3D data of human head surface (Chinese), J Huazhong Univ Sci Tech **27**(5) 19-20 (May 1999), 11A356
Fractal images with inverse replicas, Machine Graphics & Vision **8**(1) 77-82 (1999), 11T357
Model of probability neural network for handwriting signature identifying (Chinese), J Huazhong Univ Sci Tech **27**(5) 11-13 (May 1999), 11A358
On-line handwriting signature verification based on elastic matching of 3D curve (Chinese), J Huazhong Univ Sci Tech **27**(5) 14-16 (May 1999), 11A359
Parsing of random graph languages for automated inspection in statistical-based quality assurance systems, Machine Graphics & Vision **7**(3) 565-623 (1998), 11T395
Image processing and knowledge-guided data analysis for medical diagnostics support, Machine Graphics & Vision **7**(4) 841-858 (1998), 12T366
Pattern recognition and diagnosis of faults in electrical machines (Chinese), J Tsinghua Univ Sci Tech **39**(3) 72-74 (Mar 1999), 12A367
Interactive graphical system for segmentation of multimodal medical volumes using fuzzy clustering, Machine Graphics & Vision **7**(4) 781-791 (1998), 12A371

200M. Nonlinear systems

Necessary conditions for robust stability of a class of nonlinear systems, Automatica **34**(6) 705-714 (Jun 1998), 1T346
Popov-type criterion for stability of nonlinear sampled-data systems, Automatica **34**(6) 671-682 (Jun 1998), 1T347
State and input estimation for a class of uncertain systems, Automatica **34**(6) 757-764 (Jun 1998), 1A353
Contraction analysis for nonlinear systems, Automatica **34**(6) 683-696 (Jun 1998), 1T371
Hybrid time frequency domain formulation for nonlinear soil-structure interaction, Earthquake Eng Struct Dyn **27**(7) 673-685 (Jul 1998), 1A372
Exponential feedback passivity and stabilizability of nonlinear systems, Automatica **34**(6) 697-703 (Jun 1998), 1T381
Modal interaction, stability and nonlinear dynamics of a model two dof mechanical system performing snap-through motion, Nonlinear Dyn **16**(3) 239-257 (Jul 1998), 2T141
Analysis of Hopf and Takens-Bogdanov bifurcations in a modified van der Pol-Duffing oscillator, Nonlinear Dyn **16**(4) 369-404 (Aug 1998), 2T144
Construction of dynamically equivalent time-invariant forms for time-periodic systems, Nonlinear Dyn **16**(3) 203-221 (Jul 1998), 2T148
Dissipative nonlocal oscillator, Nonlinear Dyn **16**(4) 307-320 (Aug 1998), 2A149
Nonlinear vibrations of fractionally damped systems, Nonlinear Dyn **16**(4) 321-336 (Aug 1998), 2A155
Sensitive dependence on initial conditions of strongly nonlinear periodic orbits of the forced pendulum, Nonlinear Dyn **16**(3) 223-237 (Jul 1998), 2T157
Stability and optimal control of nonlinear descriptor systems: A survey, Appl Math Comp Sci **8**(2) 269-286 (1998), 2A474
Model predictive control of a combined heat and power plant using local linear models, J Eng Gas Turbines Power **120**(4) 689-693 (Oct 1998), 2A535
New robust stability results for linear systems with structured nonlinear perturbations, J Syst Control Eng **212**(I4) 241-247 (1998), 3T354
Minimal state-space model realization of a nonlinear helicopter, IEE Proc Control Theory Appl **145**(4) 415-422 (Jul 1998), 3A415
Symbolic computation of local stability and bifurcation surfaces for nonlinear time-periodic systems, Nonlinear Dyn **17**(1) 1-21 (Sep 1998), 4A120
Observer design for a special class of nonlinear systems, Int J Control **71**(3) 405-418 (Oct 1998), 4T346
Comparative study of maximum likelihood estimators for nonlinear dynamical system models, Int J Control **71**(3) 391-404 (Oct 1998), 4T350
Response spectral densities and identification of a randomly excited nonlinear squeeze film oscillator, Mech Syst Signal Processing **12**(5) 693-711 (Sep 1998), 4A359
Computational complexity of Lyapunov stability analysis problems for a class of nonlinear systems, SIAM J Control Optim **36**(6) 2176-2193 (Nov 1998), 4A390
Nonlinear multivariable flight control of aircraft, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 137-144 (1998), 4A549
Nonlinear dynamics and chaos control of a damped satellite with partially-filled liquid, J Sound Vib **217**(5) 807-825 (Nov 1998), 5A95
Improved closure method for analysis of nonlinear stochastic systems, Nonlinear Dyn **17**(3) 285-297 (Nov 1998), 6T109
Automated design technique for nonlinear structures and controllers, J Vib and Control **5**(1) 123-150 (Jan 1999), 6A121
Adaptive λ-tracking for polynomial minimum phase systems, Dyn Stability Syst **13**(4) 341-371 (1998), 6T351
On-line optimization of unknown nonlinear systems using a correlation-integration method, J Syst Control Eng **212**(16) 473-477 (1998), 6A365
Recent advances in control of nonlinear systems, Int J Control **71**(5) 689-979 (Nov 1998), 6A373
Performance enhancement of fixed regulating systems via actuator saturation, J Dyn Syst Meas Control **121**(1) 34-40 (Mar 1999), 6A389
Dynamic behavior of servo-hydraulic drives, Nonlinear Dyn **17**(3) 247-268 (Nov 1998), 6A415
Self-excited oscillators with asymmetric nonlinearities and one-to-two internal resonance, Nonlinear Dyn **17**(4) 325-346 (Dec 1998), 7T107
Nonlinear Systems Techniques and Applications (SEM, Bethel CT, 1998) 8N13
Global geometric structure of the dynamics of the elastic pendulum, Nonlinear Dyn **18**(1) 51-68 (Jan 1999), 8A95
Quasi-periodic oscillations, chaos and suppression of chaos in a nonlinear oscillator driven by parametric and external excitations, Nonlinear Dyn **18**(1) 1-24 (Jan 1999), 8A103
Nonlinear system identification by subset optimization (Chinese), J Xi'an Jiaotong Univ **33**(3) 19-22 (1999), 8A364
Linear control and estimation of nonlinear chaotic convection: Harnessing the butterfly effect, Phys Fluids **11**(5) 1169-1186 (May 1999), 9T99
Optimal filtering of discrete-time hybrid systems, J Optim Theory Appl **100**(1) 123-144 (Jan 1999), 9T402
Discrete approximation of nonconvex hyperbolic optimal control problems with state constraints, Control and Cybernetics **27**(1) 29-50 (1998), 9A412
Application of special nonsmooth temporal transformations to linear and nonlinear systems under discontinuous and impulsive excitation, Nonlinear Dyn **18**(3) 203-234 (Mar 1999), 10T127
Control law for variable damping device defined by a nonlinear differential equation, Earthquake Eng Struct Dyn **28**(5) 529-541 (May 1999), 10A147
Comparative study of neural network structures in identification of nonlinear systems, Mechatronics **9**(3) 287-300 (Apr 1999), 10A389
Identification of a dynamical system with input nonlinearity, IEE Proc Control Theory Appl **146**(1) 41-51 (Jan 1999), 10A390
Nonlinear black-box identification of distillation column models: Design variable selection for model performance enhancement, Appl Math Comp Sci **8**(4) 793-813 (1998), 10A406
Design of output feedback controllers and output observers, IEE Proc Control Theory Appl **146**(1) 108-112 (Jan 1999), 10T434
Sub-optimal nonlinear predictive and adaptive control based on the parametric Volterra model, Appl Math Comp Sci **9**(1) 161-173 (1999), 10A459
Piecewise-constant stabilization, SIAM J Control Optim **37**(3) 911-933 (Feb 1999), 11T349
Universal formula for the stabilization of control stochastic nonlinear systems, Stochastic Anal Appl **17**(3) 359-368 (1999), 11A360
Codimension-two bifurcations in a pendulum with feedback control, Int J Non-Linear Mech **34**(6) 983-1002 (Nov 1999), 12A112
Predicting homoclinic bifurcations in planar autonomous systems, Nonlinear Dyn **18**(4) 303-310 (Apr 1999), 12T118
Single-mode control of a cantilever beam under principal parametric excitation, J Sound Vib **224**(1) 33-47 (Jul 1999), 12A130
Reduction of limit cycle amplitude in the presence of backlash, J Dyn Syst Meas Control **121**(2) 278-284 (Jun 1999), 12A399
Coulomb friction limit cycles in elastic positioning systems, J Dyn Syst Meas Control **121**(2) 298-301 (Jun 1999), 12A957

200N. Discrete systems

Popov-type criterion for stability of nonlinear sampled-data systems, Automatica **34**(6) 671-682 (Jun 1998), 1T347

Development of the control algorithm for discrete automatic processes with structural Boolean variables, Sci Eng J (Ciencia Eng) **7**(1) 11-17 (Jan-Jun 1998), 2T475
Diameter of the reachability set for a 2D continuous-discrete linear system with disturbances, Appl Math Comp Sci **7**(4) 855-867 (1997), 2A476
Formal approach to discrete systems theory, Appl Math Comp Sci **7**(4) 775-794 (1997), 2A477
Optimality conditions for linear 2D control systems with constraints, Appl Math Comp Sci **7**(3) 495-512 (1997), 2A478
Regularization of singular 2D Fornasini-Marchesini models by output feedbacks, Appl Math Comp Sci **7**(4) 817-834 (1997), 2A479
Regularization of singular 2D linear models by state-feedbacks, Appl Math Comp Sci **7**(4) 795-815 (1997), 2A480
Dynamic system calibration: The low primary output sampling rate case, Model Ident Control **19**(2) 99-107 (Apr 1998), 3A359
Analysis and optimization of stability robustness bounds for discretized systems, J Optim Theory Appl **99**(2) 331-358 (Nov 1998), 5T317
Optimization of stability robustness bounds for linear discrete-time systems, J Optim Theory Appl **99**(2) 303-330 (Nov 1998), 5T319
Design of optimal reduced order filter for unstable discrete time systems, IEE Proc Control Theory Appl **145**(5) 397-404 (Sep 1998), 6A340
Discrete-time frequency weighted model reduction and application to sampled-data models, Optimal Control Appl Methods **19**(5) 315-329 (Sep-Oct 1998), 7A340
Lyapunov-like solutions to stability problems for discrete-time systems on asymptotically contractive sets, Nonlinear Dyn **18**(2) 107-127 (Feb 1999), 9T390
Optimal filtering of discrete-time hybrid systems, J Optim Theory Appl **100**(1) 123-144 (Jan 1999), 9T402
Order reduction by the discrete-time least-squares Pade method, J Syst Control Eng **213**(I1) 61-64 (1999), 9T404
Necessary optimality conditions for nonsmooth 2D control systems described by Roesser's model, Control and Cybernetics **27**(1) 51-61 (1998), 9T413
Discrete-time singular observers: H_2-H_∞ optimality and unknown inputs, Int J Control **72**(6) 481-492 (Apr 1999), 9T434
New results to the inverse optimal control problem for discrete-time linear systems, Appl Math Comp Sci **8**(3) 517-528 (1998), 10T407
Optimal control for non-stationary linear systems with a quasistatic with functional (Polish), Matematyka Stosowana **40** 1-11 (1997), 10T408
Computation of fundamental matrices and reachability of positive singular discrete linear systems, Bull Polish Acad Sci Tech Sci **46**(4) 500-511 (1998), 11T361
Exponential stabilization of state-delay systems, IEE Proc Control Theory Appl **146**(2) 131-136 (Mar 1999), 12T350
Method for evaluating stability bounds for discrete-time singularly perturbed systems, IEE Proc Control Theory Appl **146**(2) 227-233 (Mar 1999), 12T352

200O. Distributed parameter and delayed systems

Analogue solution to the modeling and simulation of distributed-lumped parameter systems, J Syst Control Eng **212**(I2) 99-114 (1998), 1A373
LMI approach to H_∞-control of time-delay systems for the benchmark problem, Earthquake Eng Struct Dyn **27**(9) 957-976 (Sep 1998), 2A481
Robustness with respect to delays for exponential stability of distributed parameter systems, SIAM J Control Optim **37**(1) 230-244 (Sep-Nov 1998), 7T330
Optimal weighted L_2 model reduction of delay systems, Int J Control **72**(1) 39-48 (Jan 1999), 7T337
Liapunov-Krasovskii functionals for stability analysis of linear delay systems, Int J Control **72**(4) 374-384 (Mar 1999), 8T358
Destabilizating effects of rate feedback on strain actuated beams, J Sound Vib **221**(2) 289-307 (Mar 1999), 9A120
Robust stability test for dynamic systems with short delays by using Pade approximation, Nonlinear Dyn **18**(3) 275-287 (Mar 1999), 10A386
Robust control of two-link flexible manipulators using the μ-synthesis technique, J Vib and Control **5**(4) 559-576 (Jul 1999), 12A139
Detection and regulation problems for discrete-time distributed systems with delays, Appl Math Comp Sci **9**(2) 347-369 (1999), 12T368

200P. Decentralized systems

Robust design of stabilizing controllers for interconnected time-delay systems, Automatica **34**(6) 795-800 (Jun 1998), 1A403
Robustness of the minimal control synthesis algorithm with minimal phase plant dynamics of unknown order but known relative degree, Int J Control **71**(1) 1-17 (Sep 1998), 2T516
New decentralized robust controller design for multi-area load-frequency control via in complete state feedback, Optimal Control Appl Methods **19**(5) 345-361 (Sep-Oct 1998), 7A356
Decentralized stabilizing state feedback controllers for a class of large-scale systems including state delays in the interconnections, J Optim Theory Appl **100**(1) 59-87 (Jan 1999), 9T414

200Q. Stochastic or fuzzy systems

Unified approach to optimal state estimation for stochastic singular systems, Automatica **34**(6) 777-781 (Jun 1998), 1T355
Multiobjective fuzzy comprehensive assessment and its application to assessment of ship's principal dimensions (Chinese), J Dalian Univ Tech **38**(4) 373-377 (Jul 1998), 1A374
Application of fuzzy adaptive filter in signal processing of vehicular revolution (Chinese), J Shanghai Jiaotong Univ **32**(5) 138-141 (May 1998), 1A418
Building user model in adaptive human computer interface based on fuzzy mathematics (Chinese), J Shanghai Jiaotong Univ **32**(5) 61-63 (May 1998), 1A1535
Direct design method of fuzzy controller based on genetic algorithm (Chinese), J Huazhong Univ Sci Tech **26**(5) 81-82 (May 1998), 2A482
Robust tracking control scheme for a class of nonlinear systems with fuzzy nominal model, Appl Math Comp Sci **8**(1) 145-158 (1998), 2A483
Fuzzy control of robotic manipulators, Appl Math Comp Sci **7**(3) 611-637 (1997), 2A554
Fuzzy linear regression method for the performance evaluation of IC Engines (Chinese), J Huazhong Univ Sci Tech **26**(5) 61-62 (May 1998), 2A1400
Comparison of the stability and control problem of differential systems, Stochastic Anal Appl **16**(3) 533-551 (1998), 3A373
Feedback stabilization of nonlinear stochastic systems by locally bounded controls, Stochastic Anal Appl **16**(1) 17-27 (1998), 3A374
Jump LQ-optimal control for discrete-time Markovian systems with stochastic inputs, Stochastic Anal Appl **16**(5) 843-858 (1998), 3A375
Jurdjevic-Quinn theorem for stochastic nonlinear systems, Stochastic Anal Appl **16**(1) 43-50 (1998), 3T376
New results on universal formulas for the stabilization of stochastic differential systems, Stochastic Anal Appl **16**(2) 233-240 (1998), 3A377
Stability analysis and design of fuzzy control systems (Chinese), J Xi'an Jiaotong Univ **32**(7) 24-26 (1998), 3A378
Stochastic maximum principle: A minimizing sequence approach, Stochastic Anal Appl **16**(1) 107-118 (1998), 3T379
Viability theorem for stochastic differential inclusions, Stochastic Anal Appl **16**(1) 1-15 (1998), 3T380
Stochastic linkage modeling for mechanical error analysis of planar mechanisms, Mech Struct Machines **26**(3) 257-276 (1998), 3A968
Input disturbance estimation in the bounded noise context, Int J Control **71**(3) 505-516 (Oct 1998), 4T356
Fast learning algorithm based on local adjustment for fuzzy-neural network (Chinese), J Shanghai Jiaotong Univ **32**(8) 58-62 (Aug 1998), 4A364
Fuzzy based decision-based neural network (Chinese), J Shanghai Jiaotong Univ **32**(8) 31-35 (Aug 1998), 4A365
Algorithm and application of structure equivalent neuro-fuzzy network, J Huazhong Univ Sci Tech **26**(8) 77-80 (Aug 1998), 4A374
Comprehensive fuzzy evaluation method for the stability of slope (Chinese), J Huazhong Univ Sci Tech **26**(S1) 96-98 (May 1998), 4A375
RBF network based parameters obtaining for Takagi-Sugeno fuzzy controller (Chinese), J Shanghai Jiaotong Univ **32**(6) 98-101 (Jun 1998), 4A376
Fuzzy clustering for complicated system diagnosis (Chinese), J Shanghai Jiaotong Univ **32**(6) 61-64 (Jun 1998), 4A430
Fuzzy neural network method for shop production rescheduling (Chinese), J Huazhong Univ Sci Tech **26**(7) 65-67 (Jul 1998), 4A487
Research on the pipeline building quality expert system (Chinese), J Xi'an Jiaotong Univ **32**(10) 92-96 (1998), 4A502
Analysis of system quality by set-valued statistics, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 52-56 (Jun 1998), 4A508
Fuzzy characteristics and fuzzy recognition for cutting tool states (Chinese), J Beijing IT **18**(2) 176-182 (Apr 1998), 5A348
Fuzzy logic control system to guide tillage (Chinese), J Xi'an Jiaotong Univ **32**(11) 27-30 (1998), 5A349
Fuzzy logic and artificial neural network applied in evaluating malfunction-model of thermodynamic system (Chinese), J Xi'an Jiaotong Univ **32**(11) 53-57 (1998), 5A393
Improved closure method for analysis of nonlinear stochastic systems, Nonlinear Dyn **17**(3) 285-297 (Nov 1998), 6T109
Simplified model of fuzzy neural network (Chinese), J Huazhong Univ Sci Tech **26**(9) 30-33 (Sep 1998), 6A345
Fuzzy logic versus niched Pareto multiobjective genetic algorithm optimization, Model Simulation Mat Sci Eng **6**(6) 717-734 (Nov 1998), 6A352
Fuzzy model reference learning control: A new control paradigm for smart structures, Smart Mat Struct **7**(6) 874-884 (Dec 1998), 6A353
Local state covariance assignment for stochastic large-scale systems, J Dyn Syst Meas Control **121**(1) 139-142 (Mar 1999), 6A354
Neural, fuzzy and genetic techniques in robotics and control, J Intelligent & Robotic Syst **23**(2-4) 105-405 (Oct-Dec 1998), 6T355
Optimization of membership function for fuzzy control based on genetic algorithm and its applications, J Shanghai Univ **2**(4) 295-300 (Dec 1998), 6A356
Autotuning gain parameter implementation with fuzzy learning control scheme for DC brushless servo system, IEE Proc Control Theory Appl **145**(5) 419-427 (Sep 1998), 6A381
Robustness enhancement of an optimal fuzzy control electrical position servo system by a novel model-following approach, J Syst Control Eng **212**(16) 449-458 (1998), 6T392
Simulation of fuzzy torque control system for electric vehicles (Chinese), J Tsinghua Univ Sci Tech **38**(8) 96-99 (Aug 1998), 6A409
Fuzzy comprehensive evaluation of thermal sensation in steady thermal environment (Chinese), J Tsinghua Univ Sci Tech **38**(7) 94-97 (Jul 1998), 6A1606
Control of rolled strips thickness using fuzzy logic (Spanish), J Brazilian Soc Mech Sci **20**(4) 645-655 (Dec 1998), 7A341
Nonlinear projection filter based on Galerkin approximation, J Guidance Control Dyn **22**(2) 258-266 (Mar-Apr 1999), 8T368
Model reference adaptive fuzzy control for one class of nonlinear systems (Chinese), J Shanghai Jiaotong Univ **32**(12) 120-123 (Dec 1998), 8A374
Genetic algorithm based methodology to generate automatically optimal fuzzy systems, IEE Proc Control Theory Appl **145**(6) 583-586 (Nov 1998), 8T402
ANN-fuzzy recognition of tool conditions (Chinese), J Shanghai Jiaotong Univ **32**(12) 24-28 (Dec 1998), 8A917
Design of a robust adaptive fuzzy controller globally stabilizing the multi-input nonlinear system with state-dependent uncertainty, Control and Cybernetics **27**(4) 613-629 (1998), 9A415
Discrete-time Markovian jump linear systems, Control and Cybernetics **27**(1) 63-80 (1998), 9T416
Estimation of unmeasurable input and states by applying fuzzy control: Fuzzy control for steam temperature of a boiler heating surface, JSME Int J Ser C **41**(4) 766-773 (Dec 1998), 9A417
Fuzzy neural network for knowledge acquisition in complex time series, Control and Cybernetics **27**(4) 593-611 (1998), 9A418
Stability analysis of fuzzy control systems simplified as a discrete system, Control and Cybernetics **27**(4) 565-577 (1998), 9A419
Experimental implementations of decoupling self-organizing fuzzy control to a TITO pneumatic position control system, JSME Int J Ser C **42**(1) 85-92 (Mar 1999), 9A479
Fuzzy control of vertical pneumatic servo systems using virtual reference, JSME Int J Ser C **42**(1) 79-84 (Mar 1999), 9A480
Fuzzy PWM control of the positions of a pneumatic robot cylinder using high speed solenoid valve, JSME Int J Ser C **40**(3) 469-476 (Sep 1997), 9A481
Adaptive fuzzy network for control of manipulating robot dynamic behavior, Control and Cybernetics **27**(4) 503-519 (1998), 9A508
Behavior analysis of genetic fuzzy controller for an autonomous robot, Control and Cybernetics **27**(4) 579-591 (1998), 9A521
Fuzzy controller with a real-time tuning algorithm and its application to a steam generator water level control, Control and Cybernetics **27**(4) 545-564 (1998), 9A523
Adaptive fuzzy logic control of a single-link flexible arm, JSME Int J Ser C **40**(4) 702-708 (Dec 1997), 9A527
Neuro-fuzzy controller design of the anti-lock braking system, JSME Int J Ser C **41**(4) 836-843 (Dec 1998), 9A1041
Fuzzy stability analysis of mode coupling chatter on cutting process, Chinese J Mech Eng **11**(2) 109-114 (Jun 1998), 10A232
Study of the fast learning algorithm of the T-S fuzzy RBF neural network (Chinese), J Huazhong Univ Sci Tech **27**(2) 84-86 (Feb 1999), 10A400
Assessment and quantification theory with fuzzy pattern recognition model on regional sustainable development (Chinese), J Dalian Univ Tech **39**(2) 295-301 (Mar 1999), 10A409
Automatic design of fuzzy rule base for modeling and control using evolutionary programming, IEE Proc Control Theory Appl **146**(1) 9-16 (Jan 1999), 10A431
Design method and application for fuzzy logical controller based on L_∞ Lyapunov functions, IEE Proc Control Theory Appl **146**(1) 17-24 (Jan 1999), 10T433
Application of fuzzy set theory in fault tree analysis, Chinese J Mech Eng **11**(4) 326-332 (Dec 1998), 10A470
Wear of liquid-solid two-phase flow pump using fuzzy comprehensive evaluation method (Chinese), J Xi'an Jiaotong Univ **33**(4) 73-76 (1999), 10A1029
Exponential stability in mean-square of parabolic quasilinear stochastic delay evolution equations, Stochastic Anal Appl **17**(3) 443-461 (1999), 11A348
Estimation of robustness for controlled diffusion processes, Stochastic Anal Appl **17**(3) 421-441 (1999), 11A362
Study of reservoir operation by dam control system aiding fuzzy system and neural network system (Japanese), Proc JSCE **616**(VI-42) 77-89 (Mar 1999), 11T363
γ-attenuation problem for systems with state dependent noise, Stochastic Anal Appl **17**(3) 395-404 (1999), 11A364
Two-stage fuzzy controller for a flexible link manipulator, Int J Robotics Autom **14**(1) 9-14 (1999), 11A400
Approximate controllability of stochastic Stokes systems, Stochastic Anal Appl **17**(4) 563-577 (1999), 12A369
Discourse of universe compression algorithm of flexible fuzzy logic controller based on fuzzy basis function approximation (Chinese), J Shanghai Jiaotong Univ **33**(3) 292-296 (Mar 1999), 12A370
Interactive graphical system for segmentation of multimodal medical volumes using fuzzy clustering, Machine Graphics & Vision **7**(4) 781-791 (1998), 12A371
Interactive object detection using a fuzzy image segmentation approach, Machine Graphics & Vision **7**(4) 765-780 (1998), 12T372
Research of fuzzy controller development system for thermal systems (Chinese), J Tsinghua Univ Sci Tech **39**(3) 115-117 (Mar 1999), 12A373
Approach to designing multivariable fuzzy controller based on genetic algorithms (Chinese), J Xi'an Jiaotong Univ **33**(6) 101-103 (1999), 12T407
Neurofuzzy-model-following control of MIMO nonlinear systems, IEE Proc Control Theory Appl **146**(2) 157-164 (Mar 1999), 12A415

200Y. Computational techniques

General method for estimating dynamic parameters of spatial mechanisms, Nonlinear Dyn **16**(4) 349-368 (Aug 1998), 2A160
Development of the control algorithm for discrete automatic processes with structural Boolean variables, Sci Eng J (Ciencia Eng) **7**(1) 11-17 (Jan-Jun 1998), 2T475
Two-dimensional polynomials and discrete-continuous systems, Appl Math Comp Sci **7**(4) 881-905 (1997), 2T484
Symbolic computation of local stability and bifurcation surfaces for nonlinear time-periodic systems, Nonlinear Dyn **17**(1) 1-21 (Sep 1998), 4A120
Numerical methods for the solution of the linear-quadratic optimal control problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 383-402 (1998), 4A377
Reconstruction of a finite sum of sinusoids from non-uniform periodic samples, Int J Control **71**(4) 615-629 (Nov 1998), 4T378
Towards artificial decision making, Robotics Autonomous Syst **24**(3-4) 93-198 (Sep 1998), 4A422
Theoretical and experimental study of crossover operators of genetic algorithms, J Optim Theory Appl **99**(2) 271-302 (Nov 1998), 5T391
Filtered reference and filtered error LMS algorithms for adaptive feedforward control, Mech Syst Signal Processing **12**(6) 769-781 (Nov 1998), 6T385
Algorithms of the cross-coupled precompensation method for generating the involute-type scrolls, J Dyn Syst Meas Control **121**(1) 96-104 (Mar 1999), 6A475
Impedance matrix in series, Mech Syst Signal Processing **13**(1) 83-102 (Jan 1999), 7A329
State estimator design for multimodal adjustment process using genetic algorithm, Mechatronics **9**(2) 163-183 (Mar 1999), 8T366
Linear time-varying dynamic systems optimization via higher-order method using shifted Chebyshev's polynomials, J Vib Acoust **121**(2) 258-261 (Apr 1999), 8A375

Sub-gradient algorithms for computations of extreme eigenvalues of a real symmetric matrix, Control and Cybernetics **27**(3) 387-415 (1998), 9A70

Plotting robust root loci for linear systems with multi-linearly parametric uncertainties, Int J Control **72**(6) 501-511 (Apr 1999), 9T392

Adaptive strategy for the damping parameters in an iteratively regularized Gauss-Newton method, J Optim Theory Appl **100**(1) 161-180 (Jan 1999), 9T420

Legendre polynomials method in time-optimal control of linear single - input systems, Control and Cybernetics **27**(1) 105-117 (1998), 9T421

Multipoint boundary-value solution of two-point boundary-value problems, J Optim Theory Appl **100**(2) 397-416 (Feb 1999), 9T422

Regularized penalty method for non-coercive parabolic optimal control problems, Control and Cybernetics **27**(1) 5-27 (1998), 9T423

Papers dedicated to Jerry South of NASA Langley Research Center on the occasion of his retirement, Comput Fluids **28**(3-4) 389-739 (May-Jun 1999), 9A465

Adaptive predictive controller using orthonormal series functions, Appl Math Comp Sci **9**(1) 175-191 (1999), 10A410

Fast state-space algorithms for predictive control, Appl Math Comp Sci **9**(1) 149-160 (1999), 10T411

Lake bed classification using acoustic data, Appl Math Comp Sci **8**(4) 841-864 (1998), 10A412

Model-based predictive control of large-scale systems using a neural estimator, Appl Math Comp Sci **8**(3) 585-598 (1998), 10A413

Suboptimal nonlinear predictive controllers, Appl Math Comp Sci **9**(1) 129-148 (1999), 10T414

New constraint stabilization technique for dynamic systems with nonholonomic constraints, J Guidance Control Dyn **22**(3) 497-499 (May-Jun 1999), 11T159

Dynamic system characterization via eigenvalue orbits, J Guidance Control Dyn **22**(3) 447-454 (May-Jun 1999), 11A355

General forms for the recursive determination of generalized inverses: Unified approach, J Optim Theory Appl **101**(3) 509-521 (Jun 1999), 12T348

Analysis and design of digital simulation via control theory, J Vib and Control **5**(4) 519-533 (Jul 1999), 12A374

Convergence and applications of generalized simulated annealing, SIAM J Control Optim **37**(4) 1222-1250 (Apr 1999), 12T375

Decentralized variable structure tracking for systems with time-domain dominance, Appl Math Comp Sci **9**(2) 265-291 (1999), 12T376

Iterative model reduction of large state-space systems, Appl Math Comp Sci **9**(2) 245-263 (1999), 12T377

Wavelet approach to optimizing dynamic systems, IEE Proc Control Theory Appl **146**(2) 213-219 (Mar 1999), 12A396

Decoupling solution method for implicit numerical integration of constrained mechanical systems, Mech Struct Machines **27**(2) 129-141 (1999), 12A1010

200Z. Experimental systems analysis

Exact adjustment of dynamic forces in presence of nonlinear feedback and singularity - Theory and algorithm, J Sound Vib **218**(1) 1-27 (Nov 1998), 5A157

Spatial mechanism for the measurement of the inertia tensor: Theory and experimental results, J Dyn Syst Meas Control **121**(1) 111-116 (Mar 1999), 6A114

Active control of radiated duct noise with an insufficient number of sensors and actuators, J Sound Vib **221**(3) 351-369 (Apr 1999), 9A349

Experimental identification technique of nonlinear beams in time domain, Nonlinear Dyn **18**(2) 185-202 (Feb 1999), 9A424

202. CONTROL SYSTEMS

202A. General theory

Mathematical Control Theory: Deterministic Finite Dimensional Systems, Second Edition (Springer-Verlag, New York, 1998) 1N7

Active control of damping of mechanical systems, Strojnicky Casopis **49**(3) 157-166 (1998), 1A375

New results on the global stabilization of minimum-phase nonlinear systems, Automatica **34**(6) 783-788 (Jun 1998), 1T382

Space Vehicle Dynamics and Control (AIAA, MD, 1998) 2R5

Approximate nonlinear receding-horizon control laws in closed form, Int J Control **71**(1) 19-34 (Sep 1998), 2T507

Closed loop cancellations in H_∞ control of time-varying systems, Int J Control **71**(1) 163-189 (Sep 1998), 2T508

Pole-zero cancellation in time-varying systems, Int J Control **71**(1) 103-130 (Sep 1998), 2T514

New robust stability results for linear systems with structured nonlinear perturbations, J Syst Control Eng **212**(I4) 241-247 (1998), 3T354

Optimal control of a distributed hyperbolic system with multiple time-varying lags, Int J Control **71**(3) 419-435 (Oct 1998), 4T386

Pontryagin's principle for state-constrained control problems governed by parabolic equations with unbounded controls, SIAM J Control Optim **36**(6) 1853-1879 (Nov 1998), 4T387

Calculation of recoverable sets for systems with input and state constraints, Optimal Control Appl Methods **19**(4) 247-269 (Jul-Aug 1998), 4T397

Quadratic boundedness of nominally linear systems, Int J Control **71**(6) 1105-1117 (Dec 1998), 6T357

Regional eigenvalue-clustering robustness analysis for singular systems with structured parameter perturbations, J Syst Control Eng **212**(16) 467-471 (1998), 6T358

Passivity-based versus disturbance observer based robot control: Equivalence and stability, J Dyn Syst Meas Control **121**(1) 41-47 (Mar 1999), 6A468

Generalized Serret-Andoyer transformation and applications for the controlled rigid body, Dyn Control **9**(1) 39-66 (Jan 1999), 8T80

Robust stabilization of dynamical systems by means of bounded controls, J Appl Math Mech **62**(5) 721-728 (1998), 8A376

Asymptotic behavior of the attainable sets of linear periodic control systems, J Optim Theory Appl **100**(2) 349-364 (Feb 1999), 9T425

Constrained output feedbacks for singularly perturbed imperfectly known nonlinear systems, J Franklin Inst **336**(3) 449-472 (Apr 1999), 9A426

G-closures of material sets in space-time and perspectives of dynamic control in the coefficients of linear hyperbolic equations, Control and Cybernetics **27**(2) 283-294 (1998), 9A427

Mixed H_2-L_1 fixed-architecture controller design for multi-input and single-output systems, J Franklin Inst **336**(3) 435-448 (Apr 1999), 9A428

Property of bilinear transformation matrix and Schur stability for a linear combination of polynomials, J Franklin Inst **336**(3) 533-541 (Apr 1999), 9A429

Robust stabilization for systems with parametric uncertainty and time delays, J Franklin Inst **336**(3) 473-480 (Apr 1999), 9A430

Stability of uncertain linear descriptor systems, J Franklin Inst **336**(3) 549-564 (Apr 1999), 9A431

Stability robustness of feedback linearizable systems with input unmodeled dynamics, IEE Proc Control Theory Appl **146**(1) 77-83 (Jan 1999), 10T387

Asymptotic behavior of attainable sets of singularly-perturbed linear autonomous control systems, J Appl Math Mech **62**(6) 901-907 (1999), 10A415

Control parameterization enhancing transform for constrained optimal control problems, J Austral Math Soc B **40**(3) 314-335 (Jan 1999), 10A416

Necessary optimality conditions for bicriterion discrete optimal control problems, J Austral Math Soc B **40**(3) 392-402 (Jan 1999), 10A417

Parameter insensitive disturbance-rejection problems with direct control and with known disturbances for infinite-dimensional systems, J Franklin Inst **336**(4) 701-710 (May 1999), 10A418

Stabilization of a natural mechanical system without measuring its velocities with application to the control of a rigid body, J Appl Math Mech **62**(6) 853-862 (1999), 10A419

Analytic controllability of a linear hybrid system, SIAM J Control Optim **37**(3) 844-868 (Feb 1999), 11T343

High level interior and boundary regularity results of the Euler-Bernoulli equation with application to differential Riccati equations in optimal control, Numer Functional Anal Optimization **20**(3-4) 367-386 (1999), 11A365

Evolving control strategies for suppressing heteroclinic bursting, Dyn Control **9**(2) 149-171 (Apr 1999), 11T372

LQR-based nonlinear tuning relay control design with fast convergence, Appl Math Comp Sci **9**(2) 313-326 (1999), 12T378

Robust disturbance rejection for left-invertible linear systems with nonlinear-uncertain structure, J Dyn Syst Meas Control **121**(2) 218-225 (Jun 1999), 12A379

Robust LTV feedback synthesis for nonlinear MIMO plants, J Dyn Syst Meas Control **121**(2) 226-232 (Jun 1999), 12A380

Stability properties of the Hadamard product of interval polynomials and SPR functions, J Franklin Inst **336**(5) 749-754 (Jul 1999), 12A381

Transmission zeros of mass-dashpot-spring systems, J Dyn Syst Meas Control **121**(2) 179-183 (Jun 1999), 12A382

Necessary optimality conditions for control problems and the Stone-Cech compactification, SIAM J Control Optim **37**(4) 1011-1032 (Apr 1999), 12T389

Pontryagin's principle for time-optimal problems, J Optim Theory Appl **101**(2) 375-402 (May 1999), 12T392

202B. Optimization techniques and algorithms

Unified approach to optimal state estimation for stochastic singular systems, Automatica **34**(6) 777-781 (Jun 1998), 1T355

Class of optimal control problems with state jumps, J Optim Theory Appl **98**(1) 65-82 (Jul 1998), 1A376

Generalized conjugate gradient algorithm, J Optim Theory Appl **98**(2) 489-502 (Aug 1998), 1T377

New algorithm for compensator design for higher-order system via reduced model, Automatica **34**(7) 917-920 (Jul 1998), 1A378

Optimal boundary control problems for shape memory alloys under state constraints for stress and temperature, Numer Functional Anal Optimization **19**(5-6) 489-498 (1998), 1A379

Gain-bandwidth optimal design for the new formulation quantitative feedback theory, J Dyn Syst Meas Control **120**(3) 401-404 (Sep 1998), 1A392

H^2 output feedback control for descriptor systems, Automatica **34**(7) 841-850 (Jul 1998), 1T395

H_∞ formulation of quantitative feedback theory, J Dyn Syst Meas Control **120**(3) 305-313 (Sep 1998), 1A396

Output stabilizing robust control for discrete uncertain systems, Automatica **34**(6) 731-739 (Jun 1998), 1T399

Reliable control of uncertain nonlinear systems, Automatica **34**(7) 875-879 (Jul 1998), 1T402

Suboptimal N-step-ahead cautious controller for adaptive control applications, J Dyn Syst Meas Control **120**(3) 419-423 (Sep 1998), 1A406

Algorithm for time-optimal control problems, J Dyn Syst Meas Control **120**(3) 414-418 (Sep 1998), 1A408

Comparison of four filtering options for a radar tracking problem, J Guidance Control Dyn **21**(4) 618-623 (Jul-Aug 1998), 1T410

Frequency weighting for the H_∞ and H_2 control design of flexible structures, J Guidance Control Dyn **21**(4) 664-666 (Jul-Aug 1998), 1T427

Multiple-load truss topology and sizing optimization: Some properties of minimax compliance, J Optim Theory Appl **98**(2) 255-280 (Aug 1998), 1T954

Outer approximations approach to reliability-based optimal design of structures, J Optim Theory Appl **98**(1) 1-16 (Jul 1998), 1T961

Application of the Taguchi method to the optimization of the submerged arc welding process, Mat Manuf Processes **13**(3) 455-467 (1998), 1A1066

Touch points in optimal ascent trajectories with first-order state inequality constraints, J Guidance Control Dyn **21**(4) 603-610 (Jul-Aug 1998), 1T1241

Closed-form solution for optimal control of laminated plate, Comput Struct **69**(2) 283-290 (Oct 1998), 2A485

Fast converging algorithm for Landau's output error method, Appl Math Comp Sci **8**(2) 321-334 (1998), 2A486

Gradient of the discretized energy method and discretized continuous gradient in electromagnetic shaping simulation, Appl Math Comp Sci **7**(3) 545-565 (1997), 2A487

Hierarchical H_∞/H_2 optimal control: 2-block problem, Int J Control **70**(6) 965-1017 (Aug 1998), 2T488

Initial jumps for singular systems in connection with LQ optimal control, J Franklin Inst **335B**(7) 1207-1213 (Sep 1998), 2A489

LQ controller synthesis problem: An operator case, Appl Math Comp Sci **8**(2) 313-319 (1998), 2A490

LQR weight selection approach to the discrete generalized H_2 control problem, Int J Control **71**(1) 93-101 (Sep 1998), 2T491

Mixed-norm H_2/L_1 controller synthesis via fixed-order dynamic compensation: A Riccati equation approach, Int J Control **71**(1) 35-59 (Sep 1998), 2T492

Multi-time dynamic programming and Riccati equation, Int J Control **71**(1) 61-78 (Sep 1998), 2T493

Optimal control of dynamic systems: Application to spline approximations, Appl Math Comput **97**(2-3) 99-138 (Dec 1998), 2A494

Approximate nonlinear receding-horizon control laws in closed form, Int J Control **71**(1) 19-34 (Sep 1998), 2T507

Closed loop cancellations in H_∞ control of time-varying systems, Int J Control **71**(1) 163-189 (Sep 1998), 2T508

H_∞ control for systems with jumps, Int J Control **70**(6) 941-964 (Aug 1998), 2T510

Improved dual version of the generalized minimum variance controller, Int J Control **71**(1) 131-143 (Sep 1998), 2T512

Nonlinear H_∞ control and related problems of homogeneous systems, Int J Control **71**(1) 79-92 (Sep 1998), 2T513

Robust disturbance attenuation with stability for a class of uncertain signularly perturbed systems, Int J Control **70**(6) 873-891 (Aug 1998), 2T515

Time-optimal spin-up maneuvers for flexible spacecraft, J Guidance Control Dyn **21**(5) 806-808 (Sep-Oct 1998), 3T277

Method to reduce noise in hydraulic systems by optimizing pipe clamp locations, J Syst Control Eng **212**(I4) 267-280 (1998), 3A325

Dynamic system multivariate calibration by system identification method, Model Ident Control **19**(2) 77-97 (Apr 1998), 3T360

Nonlinear filtering and control of a switching diffusion with small observation noise, SIAM J Control Optim **36**(5) 1638-1668 (Sep 1998), 3T365

3-1/2 dof polynomial solution of the inferential H_2/H_∞ control problem with application to metal rolling, J Dyn Syst Meas Control **120**(4) 445-455 (Dec 1998), 3A381

Collocation versus differential inclusion in direct optimization, J Guidance Control Dyn **21**(5) 780-785 (Sep-Oct 1998), 3T382

Controllability issues in nonlinear state-dependent Riccati equation control, J Guidance Control Dyn **21**(5) 767-773 (Sep-Oct 1998), 3T383

Invex functions and generalized convexity in multiobjective programming, J Optim Theory Appl **98**(3) 651-661 (Sep 1998), 3T384

Linear-quadratic worst-case control, J Guidance Control Dyn **21**(5) 761-766 (Sep-Oct 1998), 3A385

Multi-step H_∞ generalized predictive control, Dyn Control **8**(4) 303-339 (Oct 1998), 3T386

Optimal control of a parabolic distributed parameter system via orthogonal polynomials, Optimal Control Appl Methods **19**(3) 205-213 (May-Jun 1998), 3A387

Quadratic optimization problem with equality constraints, J Optim Theory Appl **98**(3) 733-741 (Sep 1998), 3T388

Robust H_∞ control in the presence of stochastic uncertainty, Int J Control **71**(2) 219-237 (Sep 1998), 3T389

Stochastic H^∞, SIAM J Control Optim **36**(5) 1504-1538 (Sep 1998), 3T390

Maximum principle for optimal boundary control of vibrating structures with applications to beams, Dyn Control **8**(4) 355-375 (Oct 1998), 3A395

New approach for frequency weighted L_2 model reduction of discrete-time systems, Optimal Control Appl Methods **19**(3) 147-167 (May-Jun 1998), 3T398

Optimal robust tracking subject to disturbances, noise, plant uncertainty, and performance constraints, J Guidance Control Dyn **21**(5) 774-779 (Sep-Oct 1998), 3A400

Design of automatic thruster assisted position mooring systems for ships, Model Ident Control **19**(2) 61-75 (Apr 1998), 3A410

Motion planning of redundant robot manipulators using constrained optimization: A parallel approach, J Syst Control Eng **212**(I4) 281-292 (1998), 3T465

Optimal control of a stochastic assembly production line, J Optim Theory Appl **98**(3) 681-700 (Sep 1998), 3A481

Solution techniques for periodic control problems: A case study in production planning, Optimal Control Appl Methods **19**(3) 185-203 (May-Jun 1998), 3T483

Solving scheduling problems by simulated annealing, SIAM J Control Optim **36**(5) 1539-1575 (Sep 1998), 3T484

Maximum principle for a stochastic optimal control problem and application to portfolio-consumption choice, J Optim Theory Appl **98**(3) 719-731 (Sep 1998), 3T486

Shape optimization of a vehicle speed control bump, Mech Struct Machines **26**(3) 319-342 (1998), 3A986

Robust stabilization of linear systems in the presence of Gaussian perturbation of parameters, Optimal Control Appl Methods **19**(4) 271-286 (Jul-Aug 1998), 4T347

Time-domain performance of multivariable systems in response to fixed inputs, Int J Control **71**(3) 437-458 (Oct 1998), 4A363

Numerical methods for the solution of the linear-quadratic optimal control problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 383-402 (1998), 4A377

Computation of optimal singular and bang-bang controls, Optimal Control Appl Methods **19**(4) 287-297 (Jul-Aug 1998), 4T379

Directional Lipschit36an optimal solution of infinite-dimensional optimization problems, Appl Math Lett **11**(6) 123-128 (Nov 1998), 4A380

Feasible direction interior-point technique for nonlinear optimization, J Optim Theory Appl **99**(1) 121-146 (Oct 1998), 4T381

Feasible directions algorithm for optimal control problems with state and control constraints: Convergence analysis, SIAM J Control Optim **36**(6) 1999-2019 (Nov 1998), 4T382

H_∞ output feedback robust stabilization for nonlinear systems (Chinese), J Shanghai Jiaotong Univ **32**(6) 78-82 (Jun 1998), 4A383

Minimizing and stationary sequences of constrained optimization problems, SIAM J Control Optim **36**(6) 1908-1936 (Nov 1998), 4T384

Near optimization of dynamic systems by decomposition and aggregation, J Optim Theory Appl **99**(1) 1-22 (Oct 1998), 4T385

Optimal control of a distributed hyperbolic system with multiple time-varying lags, Int J Control **71**(3) 419-435 (Oct 1998), 4T386

Pontryagin's principle for state-constrained control problems governed by parabolic equations with unbounded controls, SIAM J Control Optim **36**(6) 1853-1879 (Nov 1998), 4T387
Solution of two-point boundary-value problems using the differential transformation method, J Optim Theory Appl **99**(1) 23-35 (Oct 1998), 4T388
Mathematical strategies common to mechanics and control, Z Angew Math Mech **78**(11) 723-730 (1987), 4A392
Adaptive linear quadratic Gaussian control: The cost-biased approach revisited, SIAM J Control Optim **36**(6) 1890-1907 (Nov 1998), 4T396
Optimal control of a magnetic bearing without bias flux using finite voltage, Optimal Control Appl Methods **19**(4) 227-246 (Jul-Aug 1998), 4A424
Application of LTR design in fault detection, Optimal Control Appl Methods **19(4)** 215-225 (Jul-Aug 1998), 4A428
Global minimum-time trajectory planning of mechanical manipulators using interval analysis, Int J Control **71**(4) 631-652 (Nov 1998), 4A455
Optimal cutter selection and machining plane determination for process planning and NC machining of complex surfaces, J Manuf Syst **17**(5) 371-388 (1998), 4A474
Optimal control of thermally convected fluid flows, SIAM J Sci Comput **19**(6) 1847-1869 (Nov 1998), 4T1051
Computational Methods in Optimal Design and Control (Springer-Verlag, New York, 1998) 5N10
Nonlinear dynamic motion optimization and control of multibody systems, Mech Struct Machines **26**(4) 343-363 (1998), 5T79
Analysis and optimization of stability robustness bounds for discretized systems, J Optim Theory Appl **99**(2) 331-358 (Nov 1998), 5T317
Optimization of stability robustness bounds for linear discrete-time systems, J Optim Theory Appl **99**(2) 303-330 (Nov 1998), 5T319
Area determination of heat exchanger networks using dynamic simulation, Heat Transfer Eng **19**(4) 22-28 (Oct-Dec 1998), 5A350
Problem of simultaneous H^∞ control, Appl Math Lett **12**(1) 53-56 (Jan 1999), 5A351
Sequential logic control of liquid injection molding with automatic vents and vent-to-gate converters, J Mat Processing Manuf Sci **6**(2) 81-103 (Oct 1997), 5A352
Solution bounds for the discrete Riccati equation and its application, J Optim Theory Appl **99**(2) 443-463 (Nov 1998), 5T353
Robust approximate pole assignment for second-order systems: Neural network computation, J Guidance Control Dyn **21**(6) 923-929 (Nov-Dec 1998), 5A357
Design and evaluation of a 3D optimal ascent guidance algorithm, J Guidance Control Dyn **21**(6) 867-875 (Nov-Dec 1998), 5A365
Geometry and inverse optimality in global attitude stabilization, J Guidance Control Dyn **21**(6) 930-939 (Nov-Dec 1998), 5T367
High-g barrel roll maneuvers against proportional navigation from optimal control viewpoint, J Guidance Control Dyn **21**(6) 876-881 (Nov-Dec 1998), 5T369
Large-scale direct optimal control applied to a re-entry problem, J Guidance Control Dyn **21**(6) 996-1000 (Nov-Dec 1998), 5A370
Near-optimal entry trajectories for reusable launch vehicles, J Guidance Control Dyn **21**(6) 983-990 (Nov-Dec 1998), 5A371
Nonlinear H_∞ robust guidance law for homing missiles, J Guidance Control Dyn **21**(6) 882-890 (Nov-Dec 1998), 5A372
Optimization of ΔV earth-gravity-assist trajectories, J Guidance Control Dyn **21**(6) 991-995 (Nov-Dec 1998), 5T373
Time-optimal turn to a heading: An improved analytic solution, J Guidance Control Dyn **21**(6) 940-947 (Nov-Dec 1998), 5A378
Optimal design of quasi-brittle elastic bodies with cracks, Mech Struct Machines **26**(4) 365-376 (1998), 5A768
Design of optimal reduced order filter for unstable discrete time systems, IEE Proc Control Theory Appl **145**(5) 397-404 (Sep 1998), 6A340
Analysis and approximation of optimal control problems for first-order elliptic systems in 3D, Appl Math Comput **100**(1) 49-70 (Apr 1999), 6A359
Design optimization of multibody systems by sequential approximation, Multibody Syst Dyn **2**(4) 393-415 (Dec 1998), 6A360
Direct method of constructing H_2-suboptimal controllers: Continuous-time systems, J Optim Theory Appl **99**(3) 585-616 (Dec 1998), 6T361
Direct method of constructing H_2-Suboptimal controllers: Discrete-time systems, J Optim Theory Appl **99**(3) 617-653 (Dec 1998), 6T362
Identification of linear parameter-varying systems using nonlinear programming, J Dyn Syst Meas Control **121**(1) 71-78 (Mar 1999), 6A363
LQG controllers for discrete-time multivariable systems with different transport delays in signal channels, IEE Proc Control Theory Appl **145**(5) 449-462 (Sep 1998), 6A364
On-line optimization of unknown nonlinear systems using a correlation-integration method, J Syst Control Eng **212**(16) 473-477 (1998), 6A365
Optimization of feedback gains for a hydraulic servo system by genetic algorithms, J Syst Control Eng **212**(I5) 395-401 (1998), 6A366
Optimizing performance indices with pole assignment constraints, J Syst Control Eng **212**(I5) 327-337 (1998), 6T367
Restoration of controls under conditions of incomplete information on the dynamics of the system, J Appl Math Mech **62**(4) 529-536 (1998), 6A368
Stabilization of linear dynamical systems by optimal controls of linear-quadratic problems, J Appl Math Mech **62**(4) 519-527 (1998), 6A369
Tabu search method for the optimization of fluid power circuits, J Syst Control Eng **212**(I5) 373-381 (1998), 6T370
Application of interior-point methods to model predictive control, J Optim Theory Appl **99**(3) 723-757 (Dec 1998), 6T380
Optimal ripple-free deadbeat controllers, Int J Control **71**(6) 1087-1104 (Dec 1998), 6T388
Robustness enhancement of an optimal fuzzy control electrical position servo system by a novel model-following approach, J Syst Control Eng **212**(16) 449-458 (1998), 6T392
Self-tuning proportional, integral and derivative controller based on genetic algorithm least squares, J Syst Control Eng **212**(16) 437-448 (1998), 6A393
Optimal control of adaptive building structures under blast loading, Mechatronics **8**(8) 821-844 (Dec 1998), 6A431
Application of nonlinear H_∞ control to the Tetrabot robot manipulator, J Syst Control Eng **212**(16) 459-465 (1998), 6T467
Optimal control design with continuous disturbance and acceleration output (Chinese), J Shanghai Jiaotong Univ **32**(11) 93-97 (Nov 1998), 7A128
Optimal weighted L_2 model reduction of delay systems, Int J Control **72**(1) 39-48 (Jan 1999), 7T337
Inverse dynamics-based dynamic programming method for optimal control problems of linear systems, Optimal Control Appl Methods **19**(5) 363-370 (Sep-Oct 1998), 7A342
Optimal control model of neural networks for constrained optimization problems, Optimal Control Appl Methods **19**(5) 371-376 (Sep-Oct 1998), 7T343
Riccati-equation-based algorithm for continuous-time optimal control problems, Optimal Control Appl Methods **19**(5) 299-313 (Sep-Oct 1998), 7T344
Simultaneous guaranteed-cost vector-optimal performance design for collections of systems, J Guidance Control Dyn **22**(1) 96-102 (Jan-Feb 1999), 7A345
Successive approximations of linear control models, SIAM J Control Optim **37**(1) 165-176 (Sep-Nov 1998), 7T346
Algorithm to solve the discrete HJI equation arising in the L_2 gain optimization problem, Int J Control **72**(1) 49-57 (Jan 1999), 7T361
Discrete-time optimal guidance, J Guidance Control Dyn **22**(1) 171-174 (Jan-Feb 1999), 7T367
Optimal finite thrust orbit transfers with large numbers of burns, J Guidance Control Dyn **22**(1) 139-148 (Jan-Feb 1999), 7T370
Application of nonlinear optimization methods to input shaping of the hoist drive of an off-shore crane, Nonlinear Dyn **17**(4) 369-386 (Dec 1998), 7A375
Optimal control of a flexible manipulator and controller order reduction, Optimal Control Appl Methods **19**(5) 331-343 (Sep-Oct 1998), 7A386
Optimal control of a flexible manipulator and controller order reduction, Optimal Control Appl Methods **19**(5) 331-343 (Sep-Oct 1998), 7A386
H_∞ bounded fault detection filter, J Guidance Control Dyn **22**(1) 129-138 (Jan-Feb 1999), 7A401
Multi-phase optimal control technique for the simulation of a human vertical jump, J Biomech **32**(1) 87-91 (Jan 1999), 7A1614
Treatment of control constraints in FE solution of optimal control problems, J Guidance Control Dyn **22**(2) 358-360 (Mar-Apr 1999), 8T35
Algorithm for a minimum fuel control problem, Int J Control **72**(5) 435-448 (Mar 1999), 8T377
Creating time-optimal commands with practical constraints, J Guidance Control Dyn **22**(2) 241-250 (Mar-Apr 1999), 8A378
Delta operator approach to discrete-time H_∞ control, Int J Control **72**(4) 315-320 (Mar 1999), 8T379
Direct and indirect optimization of linear time-invariant dynamic systems using transformations, Optimal Control Appl Methods **19**(6) 393-410 (Nov-Dec 1998), 8A380
Fields of extremals and infinite horizon optimal control problems, Optimal Control Appl Methods **19**(6) 377-392 (Nov-Dec 1998), 8T381
Finite dimensional optimal control of Poiseuille flow, J Guidance Control Dyn **22**(2) 340-348 (Mar-Apr 1999), 8A382
Generalized plants for H_∞ robust controller design, J Guidance Control Dyn **22**(2) 366-369 (Mar-Apr 1999), 8T383
Model reduction with a finite horizon H_∞ criterion, J Guidance Control Dyn **22**(2) 251-257 (Mar-Apr 1999), 8T384
Optimal control and filtering for nonstandard singularly perturbed linear systems, J Guidance Control Dyn **22**(2) 362-365 (Mar-Apr 1999), 8T385
Robust and H_∞ stabilization of interconnected systems with delays, IEE Proc Control Theory Appl **145**(6) 559-567 (Nov 1998), 8T386
Robust maximum principle in minimax control, Int J Control **72**(4) 305-314 (Mar 1999), 8T387
Stabilizing output-feedback linear quadratic control for pure input-delayed systems, Int J Control **72**(5) 385-391 (Mar 1999), 8T388
State analysis and optimal control of linear time-varying systems via Haar wavelets, Optimal Control Appl Methods **19**(6) 423-433 (Nov-Dec 1998), 8A389
Comparison of μ- and H_2-synthesis controllers on an experimental typical section, J Guidance Control Dyn **22**(2) 278-285 (Mar-Apr 1999), 8T398
Efficient, near-optimal control allocation, J Guidance Control Dyn **22**(2) 369-372 (Mar-Apr 1999), 8T401
Genetic algorithm based methodology to generate automatically optimal fuzzy systems, IEE Proc Control Theory Appl **145**(6) 583-586 (Nov 1998), 8T402
LMI approach to suboptimal guaranteed cost control for uncertain time-delay systems, IEE Proc Control Theory Appl **145**(6) 491-498 (Nov 1998), 8T404
Modified feasible method for hierarchical steady-state control of complex systems, IEE Proc Control Theory Appl **145**(6) 603-607 (Nov 1998), 8T405
PID tuning based on loop-shaping H_∞ control, IEE Proc Control Theory Appl **145**(6) 485-490 (Nov 1998), 8A406
Robust control for uncertain linear systems with sinusoidal disturbance of uncertain frequencies, IEE Proc Control Theory Appl **145**(6) 531-536 (Nov 1998), 8A407
Numerical solution of multiobjective control problems, Optimal Control Appl Methods **19**(6) 411-422 (Nov-Dec 1998), 8A410
Adaptive H_∞ neutral network tracking controller for electrically driven manipulators, IEE Proc Control Theory Appl **145**(6) 594-602 (Nov 1998), 8A420
Robust integrated flight and propulsion controller for the Harrier aircraft, J Guidance Control Dyn **22**(2) 286-290 (Mar-Apr 1999), 8A429
Nonlinear optimal control approach to central sewer network flow control, Int J Control **72**(5) 418-429 (Mar 1999), 8A456
Optimal strategies for free-flight air traffic conflict resolution, J Guidance Control Dyn **22**(2) 202-211 (Mar-Apr 1999), 8T1225
Multipoint boundary-value solution of two-point boundary-value problems, J Optim Theory Appl **100**(2) 397-416 (Feb 1999), 9T422
Biaxial contouring control using H^∞ pole placement design, JSME Int J Ser C **41**(3) 413-420 (Sep 1998), 9A432
Constraint qualification in multiobjective optimization problems: Semidifferentiable case, J Optim Theory Appl **100**(2) 417-433 (Feb 1999), 9T433
Discrete-time singular observers: H_2-H_∞ optimality and unknown inputs, Int J Control **72**(6) 481-492 (Apr 1999), 9T434
Gain-scheduling H_∞ vibration control of SCARA type robot manipulators, JSME Int J Ser C **41**(4) 879-885 (Dec 1998), 9A435
H_∞ control of diffusion systems by using a finite-dimensional controller, SIAM J Control Optim **27**(2) 409-428 (Nov 1998), 9T436
H_∞-controllers for time-delay systems using linear matrix inequalities, J Optim Theory Appl **100**(1) 89-122 (Jan 1999), 9A437
Modified approach to direct optimization using quadrature rules, Memoirs Fac Eng Kyushu Univ **58**(4) 217-234 (Dec 1998), 9A438
New evolution strategy and its application to solving optimal control problems, JSME Int J Ser C **41**(3) 406-412 (Sep 1998), 9A439
Optimal control for an obstruction problem, J Optim Theory Appl **100**(2) 435-439 (Feb 1999), 9T440
Optimal infinite-horizon multicriteria feedback control of stationary systems with minimax objectives and bounded disturbances, J Optim Theory Appl **101**(1) 59-71 (Apr 1999), 9T441
Optimum design of structures with disturbance suppression by H_∞ control: Output feedback case, JSME Int J Ser C **41**(4) 759-765 (Dec 1998), 9A442
Robust control design with application to a seeker scan loop system, JSME Int J Ser C **40**(3) 462-468 (Sep 1997), 9A443
Special issue dedicated to Professor Yu-Chi Ho for his pioneering contributions to many areas of applied mathematics and engineering both as a researcher and an educator, J Optim Theory Appl **100**(3) 457-717 (Mar 1999), 9T444
Time-optimal control of servo-systems using PD algorithms, JSME Int J Ser C **41**(3) 384-391 (Sep 1998), 9A445
Robust ripple-free deadbeat control design, Int J Control **72**(6) 564-573 (Apr 1999), 9T462
Robust identification and control design for truck cab model device, JSME Int J Ser C **41(2)** 171-177 (Jun 1998), 9A475
Numerical computation of optimal feed rates for a fed-batch fermentation model, J Optim Theory Appl **100**(1) 1-13 (Jan 1999), 9A478
Experimental verification on gain scheduled H_∞ robust control of a magnetic bearing, JSME Int J Ser C **40**(4) 561-569 (Dec 1997), 9A1049
Expert SMC-based fuzzy control with genetic algorithms, J Franklin Inst **336(4)** 589-610 (May 1999), 10A420
New dynamic output feedback compensator designing for pole assignment, J Franklin Inst **336**(4) 665-674 (May 1999), 10A421
Robust adaptive regulation of potentially inversely unstable first-order hybrid systems, J Franklin Inst **336**(4) 627-648 (May 1999), 10A422
Space-time threshold detection in non-additive non-Gaussian noise fields, J Franklin Inst **336**(4) 675-686 (May 1999), 10A423
Use of frozen-time H_∞ controllers in time-varying applications, IEE Proc Control Theory Appl **146**(1) 31-36 (Jan 1999), 10T440
Reduced-order observer for systems with piecewise constant inputs, Optimal Control Appl Methods **20**(1) 51-58 (Jan-Feb 1999), 11A351
Fully coupled forward-backward stochastic differential equations and applications to optimal control, SIAM J Control Optim **37**(3) 825-843 (Feb 1999), 11T366
Iterative schemes for optimal control of Volterra integral equations, Nonlinear Anal **37**(1) 57-79 (Jul 1999), 11T367
Optimal compensation by linear robust control for uncertain systems, Dyn Control **9**(2) 135-148 (Apr 1999), 11A368
Quadratic optimization problems for 2D linear continuous-discrete control systems, Bull Polish Acad Sci Tech Sci **47**(2) 163-174 (1999), 11T369
Robust LQ regulator for jump linear systems with uncertain parameters, Dyn Control **9**(2) 125-134 (Apr 1999), 11T374
Computation of optimal control trajectories using Chebyshev polynomials: Parameterization, and quadratic programming, Optimal Control Appl Methods **20**(1) 21-42 (Jan-Feb 1999), 11A375
Solving control allocation problems using semidefinite programming, J Guidance Control Dyn **22**(3) 494-497 (May-Jun 1999), 11T377
Minimum-time low-thrust rendezvous and transfer using epoch mean longitude formulation, J Guidance Control Dyn **22**(3) 421-432 (May-Jun 1999), 11T381
Two-body optimization for deflecting earth-crossing asteroids, J Guidance Control Dyn **22**(3) 415-420 (May-Jun 1999), 11T387
Two-timescale-integration method for inverse simulation, J Guidance Control Dyn **22**(3) 395-401 (May-Jun 1999), 11A388
Optimal constrained trajectory planning in the plane, Int J Robotics Autom **14**(1) 33-38 (1999), 11A425
Robust inventory-production control problem with stochastic demand, Optimal Control Appl Methods **20**(1) 1-20 (Jan-Feb 1999), 11A450
Optimal design of a vibration isolation mount using physical programming, J Dyn Syst Meas Control **121**(2) 171-178 (Jun 1999), 12A175
Convergence and applications of generalized simulated annealing, SIAM J Control Optim **37**(4) 1222-1250 (Apr 1999), 12T375
Computation of optimal feedforward and feedback control by a modified reduced gradient method, Appl Math Comput **104**(1) 85-100 (Sep 1999), 12A383
Control of sensory perception in discrete event systems using stochastic dynamic programming, J Dyn Syst Meas Control **121**(2) 200-205 (Jun 1999), 12A384
Dynamic programming method for constrained discrete-time optimal control, J Optim Theory Appl **101**(2) 259-283 (May 1999), 12T385
Feasible direction algorithm for optimal control problems with state and control constraints: Implementation, J Optim Theory Appl **101**(3) 623-649 (Jun 1999), 12T386
L^1 Optimal method applied to boundary control of shock response (Chinese), J Xi'an Jiaotong Univ **33**(6) 64-67 (1999), 12A387
Method to design H^∞ optimal controllers for infinite dimensional system (Chinese), J Huazhong Univ Sci Tech **27**(3) 87-88 (Mar 1999), 12A388
Necessary optimality conditions for control problems and the Stone-Cech compactification, SIAM J Control Optim **37**(4) 1011-1032 (Apr 1999), 12T389
New reflection generator for simulated annealing in mixed-integer-continuous global optimization, J Optim Theory Appl **101**(2) 403-427 (May 1999), 12T390
Optimal control of a stochastic hybrid system with discounted cost, J Optim Theory Appl **101**(3) 557-580 (Jun 1999), 12T391
Pontryagin's principle for time-optimal problems, J Optim Theory Appl **101**(2) 375-402 (May 1999), 12T392
Precise integration of state vectors for LQ optimal control (Chinese), J Dalian Univ Tech **39**(3) 464-465 (May 1999), 12A393
Regularity of the minimum time function and minimum energy problems: The linear case, SIAM J

Control Optim **37**(4) 1195-1221 (Apr 1999), 12T394
Suboptimality of a decentralized feedback control law, J Dyn Syst Meas Control **121**(2) 305-308 (Jun 1999), 12A395
Wavelet approach to optimizing dynamic systems, IEE Proc Control Theory Appl **146**(2) 213-219 (Mar 1999), 12A396
Absolute stabilization and minimax optimal control of uncertain systems with stochastic uncertainty, SIAM J Control Optim **37**(4) 1089-1122 (Apr 1999), 12T405
Method for optimizing set-point weights in ISA-PID autotuners, IEE Proc Control Theory Appl **146**(2) 137-146 (Mar 1999), 12T414
Optimal digital design of hybrid uncertain systems using genetic algorithms, IEE Proc Control Theory Appl **146**(2) 119-130 (Mar 1999), 12T417
Determination of minimum-time maneuvers for a robotic manipulator using numerical optimization methods, Mech Struct Machines **27**(2) 185-201 (1999), 12A421
General method for the evaluation of vehicle maneuverability with special emphasis on motorcycles, Vehicle Syst Dyn **31**(2) 113-135 (Feb 1999), 12A427
Minimum time trajectory optimization and learning, J Dyn Syst Meas Control **121**(2) 213-217 (Jun 1999), 12A428
Multi-objective control synthesis: An application to 4WS passenger vehicles, Mechatronics **9**(4) 363-390 (Jun 1999), 12A430
CMOS integrated pressure sensor optimization using electrical network simulator-FEM tool coupling, J Micromech Microeng **9**(2) 109-112 (Jun 1999), 12T459
Mode-switching control for motion control and its application to disk drives: Design of optimal mode-switching conditions, IEEE/ASME Trans Mechatronics **3**(3) 202-209 (Sep 1998), 12T472
Feed rate optimization and depth of cut control for productivity and part parallelism in grinding, Mechatronics **9**(5) 447-462 (Aug 1999), 12A734
Newton's mesh independence principle for a class of optimal shape design problems, SIAM J Control Optim **37**(4) 1070-1088 (Apr 1999), 12T891
Topological derivative in shape optimization, SIAM J Control Optim **37**(4) 1251-1272 (Apr 1999), 12T897

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Analytical criterion for chaotic dynamics in flexible satellites with nonlinear controller damping, J Guidance Control Dyn **21**(4) 558-565 (Jul-Aug 1998), 1A112
Necessary conditions for robust stability of a class of nonlinear systems, Automatica **34**(6) 705-714 (Jun 1998), 1T346
Popov-type criterion for stability of nonlinear sampled-data systems, Automatica **34**(6) 671-682 (Jun 1998), 1T347
Contraction analysis for nonlinear systems, Automatica **34**(6) 683-696 (Jun 1998), 1T371
Disturbance decoupled observers for a class of bilinear systems, J Dyn Syst Meas Control **120**(3) 371-377 (Sep 1998), 1A380
Exponential feedback passivity and stabilizability of nonlinear systems, Automatica **34**(6) 697-703 (Jun 1998), 1T381
New results on the global stabilization of minimum-phase nonlinear systems, Automatica **34**(6) 783-788 (Jun 1998), 1T382
Quasi-tracking approach for finite-time control of a mass-beam system, Automatica **34**(7) 881-888 (Jul 1998), 1A383
Sliding mode controllers for uncertain systems with input nonlinearities, J Guidance Control Dyn **21**(4) 666-669 (Jul-Aug 1998), 1T384
Stabilization and tracking via output feedback for the nonlinear benchmark system, Automatica **34**(7) 907-915 (Jul 1998), 1T385
Approximate I-O feedback linearization of discrete-time nonlinear systems via virtual input direct design, Automatica **34**(6) 715-722 (Jun 1998), 1T389
Design of robust adaptive controllers for nonlinear systems with dynamic uncertainties, Automatica **34**(7) 825-840 (Jul 1998), 1A390
Global control of linear systems with saturating actuators, Automatica **34**(7) 897-905 (Jul 1998), 1T394
Reliable control of uncertain nonlinear systems, Automatica **34**(7) 875-879 (Jul 1998), 1T402
Using bifurcation methods to aid nonlinear dynamic inversion control law design, J Guidance Control Dyn **21**(4) 632-638 (Jul-Aug 1998), 1A407
Output feedback stabilization of hydraulic drives based on bilinear approximations and canonical observers, J Syst Control Eng **212**(I2) 79-85 (1998), 1A438
Adaptive reduction of the control effort in chattering-free sliding-mode control of uncertain nonlinear systems, Appl Math Comp Sci **8**(1) 51-71 (1998), 2A495
Dynamical robust adaptive tracking for uncertain nonlinear systems, Int J Control **70**(6) 921-939 (Aug 1998), 2A496
Sliding mode control with directly learned feedforward compensation, Appl Math Comp Sci **8**(1) 89-100 (1998), 2T497
Use of sliding modes to simplify the backstepping control method, Appl Math Comp Sci **8**(1) 123-133 (1998), 2A498
Adaptive robust backstepping control schemes suitable for PM synchronous motors, Int J Control **70**(6) 893-920 (Aug 1998), 2A506
Nonlinear H_∞ control and related problems of homogeneous systems, Int J Control **71**(1) 79-92 (Sep 1998), 2T513
Controllability issues in nonlinear state-dependent Riccati equation control, J Guidance Control Dyn **21**(5) 767-773 (Sep-Oct 1998), 3T383
Adaptive control of nonlinear, uncertain systems using local function estimation, J Dyn Syst Meas Control **120**(4) 429-438 (Dec 1998), 3A391
Applications of adaptive controllers to systems with nonlinear parametrization, J Dyn Syst Meas Control **120**(4) 477-487 (Dec 1998), 3A392
Feedback stabilization of bilinear control systems, SIAM J Control Optim **36**(5) 1669-1684 (Sep 1998), 3T393
Global control algorithm in the plane, Dyn Control **8**(4) 377-385 (Oct 1998), 3T394
Nonlinear generalized predictive control applied to muscle relaxant anaesthesia, Int J Control **71**(2) 239-257 (Sep 1998), 3T399
Robust, digital, nonlinear control of magnetic-levitation systems, J Dyn Syst Meas Control **120**(4) 488-495 (Dec 1998), 3A436
Observer design for a special class of nonlinear systems, Int J Control **71**(3) 405-418 (Oct 1998), 4T346
H_∞ output feedback robust stabilization for nonlinear systems (Chinese), J Shanghai Jiaotong Univ **32**(6) 78-82 (Jun 1998), 4A383
Chattering elimination algorithm for sliding mode control of uncertain nonlinear systems, Mechatronics **8**(7) 765-775 (Oct 1998), 4A389
Computational complexity of Lyapunov stability analysis problems for a class of nonlinear systems, SIAM J Control Optim **36**(6) 2176-2193 (Nov 1998), 4A390
Inversion-based sliding control of a flexible-link manipulator, Int J Control **71**(3) 477-490 (Oct 1998), 4A391
Mathematical strategies common to mechanics and control, Z Angew Math Mech **78**(11) 723-730 (1987), 4A392
Method to design time-varied sliding surface (Chinese), J Shanghai Jiaotong Univ **32**(6) 70-73 (Jun 1998), 4A393
Robust adaptive control of uncertain nonlinear systems (Chinese), J Shanghai Jiaotong Univ **32**(6) 88-93 (Jun 1998), 4A394
Compensator based output feedback sliding mode controller design, Int J Control **71**(4) 601-614 (Nov 1998), 4T398
Cerebellar model articulation controller (CMAC) based nonlinear process control systems - Part I: CMAC with general basis functions for modeling, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 41-44 (Jun 1998), 4A407
Nonlinear excitation controller based on the inverse system method, J Huazhong Univ Sci Tech **26**(S1) 47-49 (May 1998), 4A410
Modeling study and servo-control of air motor systems, Int J Control **71**(3) 459-476 (Oct 1998), 4A414
Control of Indefinite Nonlinear Dynamic Systems: Induced Internal Feedback (Springer-Verlag, New York, 1998) 5N11
Influence of control system input on system stability (Chinese), J Beijing IT **18**(4) 453-455 (Aug 1998), 5A354
Stability of discrete closed-loop control system using nonlinear transfer functions (Chinese), J Xi'an Jiaotong Univ **32**(11) 8-12 (1998), 5A355
Terminal guidance algorithm for ramjet-powered missiles, J Guidance Control Dyn **21**(6) 862-866 (Nov-Dec 1998), 5T377
Dynamic Systems and Control Division - 1998 (ASME, New York, 1998) 6N12
On-line optimization of unknown nonlinear systems using a correlation-integration method, J Syst Control Eng **212**(16) 473-477 (1998), 6A365
Design of a sliding mode controller with fuzzy sliding surfaces, IEE Proc Control Theory Appl **145**(5) 411-418 (Sep 1998), 6A371
Nonlinear robust controller for a class of nonlinear uncertain systems, IEE Proc Control Theory Appl **145**(5) 405-410 (Sep 1998), 6A372
Recent advances in control of nonlinear systems, Int J Control **71**(5) 689-979 (Nov 1998), 6A373
Disturbance attenuating adaptive controllers for parametric strict feedback nonlinear systems with output measurements, J Dyn Syst Meas Control **121**(1) 48-57 (Mar 1999), 6A383
Performance enhancement of fixed regulating systems via actuator saturation, J Dyn Syst Meas Control **121**(1) 34-40 (Mar 1999), 6A389
Predictive control for nonlinear systems using neural networks, Int J Control **71**(6) 1119-1132 (Dec 1998), 6A391
Time-delay sliding mode control for a servo, J Dyn Syst Meas Control **121**(1) 143-148 (Mar 1999), 6A397
Bifurcation-based procedure for designing and analyzing robustly stable nonlinear hydraulic servo systems, J Syst Control Eng **212**(I5) 383-394 (1998), 6A413
Application of nonlinear H_∞ control to the Tetrabot robot manipulator, J Syst Control Eng **212**(16) 459-465 (1998), 6T467
Adaptive quasi-sliding mode control for discrete-time multivariable systems, Int J Control **72**(2) 133-140 (Jan 1999), 7T350
Continuous adaptive robust controllers guaranteeing uniform ultimate boundedness for uncertain nonlinear systems, Int J Control **72**(2) 115-122 (Jan 1999), 7T351
Observer-based anti-windup scheme for nonlinear systems with input constraints, Int J Control **72**(1) 18-29 (Jan 1999), 7T358
Sliding mode control for a class of hydraulic position servo, Mechatronics **9**(1) 111-123 (Feb 1999), 7A391
Neural Network Control of Robot Manipulators and Nonlinear Systems (Taylor & Francis, UK, 1999) 8R11
Nonlinear Systems Techniques and Applications (SEM, Bethel CT, 1998) 8N13
Application of adaptive matching pursuit to adaptive control of nonlinear dynamic systems, IEE Proc Control Theory Appl **145**(6) 575-582 (Nov 1998), 8T369
Adaptive control techniques for friction compensation, Mechatronics **9**(2) 125-145 (Mar 1999), 8A390
CMAC based nonlinear process control systems - II: Controller design, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 72-75 (Dec 1998), 8A391
Discrete adaptive quasi-sliding mode control, Int J Control **72**(4) 365-373 (Mar 1999), 8A392
Frequency stability criteria of multivariable nonlinear control system (Chinese), J Xi'an Jiaotong Univ **33**(3) 15-18 (1999), 8A393
Robust control design for a class of uncertain nonlinear systems featuring a second-order sliding mode, Int J Control **72**(4) 321-331 (Mar 1999), 8T394
Sliding mode control of mechanical systems with bounded disturbances via output feedback, J Guidance Control Dyn **22**(2) 235-240 (Mar-Apr 1999), 8A395
Neural network α-th order inverse system method for the control of nonlinear continuous systems, IEE Proc Control Theory Appl **145**(6) 519-522 (Nov 1998), 8T409
Control for tractor-semitrailer vehicle systems: A Lyapunov minimax approach, Dyn Control **9**(1) 21-37 (Jan 1999), 8A421
Friction compensation using adaptive nonlinear control with persistent excitation, Int J Control **72**(5) 457-479 (Mar 1999), 8A455
Adaptive Control (Springer-Verlag, Secaucus, NJ, 1997) 9N18
Continuous sliding mode control for systems subjected to nonlinear multiple time-varying delayed perturbations, JSME Int J Ser C **40**(4) 723-729 (Dec 1997), 9A446
Hopf bifurcation amplitude control of nonlinear oscillation system (Chinese), J Vib Eng **12**(1) 21-26 (Mar 1999), 9A447
Asymptotic solution of the problem of the optimal control of non-linear oscillations in the neighborhood of a resonance, J Appl Math Mech **62**(6) 843-852 (1999), 10A424
Improved approach for nonlinear system identification using neural networks, J Franklin Inst **336**(4) 721-734 (May 1999), 10A425
Nonlinear controllers for nonlinear systems with input nonlinearities, J Franklin Inst **336**(4) 649-664 (May 1999), 10A426
Nonmonotonic trust region method for constrained optimization problems, J Austral Math Soc B **40**(4) 542-567 (Apr 1999), 10A427
Research of a nonlinear and learning control algorithm based on Fourier series (Chinese), J Huazhong Univ Sci Tech **27**(2) 1-3 (Feb 1999), 10A428
Robust linearizing controllers for nonlinear time-delay systems, IEE Proc Control Theory Appl **146**(1) 91-97 (Jan 1999), 10A438
Use of a recurrent neural network in discrete sliding-mode control, IEE Proc Control Theory Appl **146**(1) 84-90 (Jan 1999), 10A439
Backstepping controller design for nonlinear stochastic systems under a risk-sensitive cost criterion, SIAM J Control Optim **37**(3) 957-995 (Feb 1999), 11A370
Computation of optimal control trajectories using Chebyshev polynomials: Parameterization, and quadratic programming, Optimal Control Appl Methods **20**(1) 21-42 (Jan-Feb 1999), 11A375
Software environment for gain scheduled controller design, Model Ident Control **19**(4) 185-206 (Oct 1998), 11A376
Chattering elimination in the hybrid control of constrained manipulators via first-second order sliding mode control, Dyn Control **9**(2) 99-124 (Apr 1999), 11A421
Sliding mode control of an impacting elastic element using inverse model, J Low Frequency Noise Vib **18**(1) 21-38 (1999), 12A140
Intelligent learning control for a class of nonlinear dynamic systems, IEE Proc Control Theory Appl **146**(2) 165-170 (Mar 1999), 12A364
Robust disturbance rejection for left-invertible linear systems with nonlinear-uncertain structure, J Dyn Syst Meas Control **121**(2) 218-225 (Jun 1999), 12A379
Effect of actuator saturation on the performance of PD-controlled servo systems, Mechatronics **9**(5) 497-511 (Aug 1999), 12A397
Multi-mode VS controller of nonlinear systems with non-matched uncertainties (Chinese), J Huazhong Univ Sci Tech **27**(3) 84-86 (Mar 1999), 12A398
Reduction of limit cycle amplitude in the presence of backlash, J Dyn Syst Meas Control **121**(2) 278-284 (Jun 1999), 12A399
Almost disturbance decoupling of uncertain nonlinear output feedback systems, IEE Proc Control Theory Appl **146**(2) 220-226 (Mar 1999), 12T406
Chattering-free and fast-response sliding mode controller, IEE Proc Control Theory Appl **146**(2) 171-177 (Mar 1999), 12T408
Neurofuzzy-model-following control of MIMO nonlinear systems, IEE Proc Control Theory Appl **146**(2) 157-164 (Mar 1999), 12A415
Oscillation, instability and control of stepper motors, Nonlinear Dyn **18**(4) 383-404 (Apr 1999), 12A444
Robust nonlinear control and torque ripple reduction for permanent magnet stepper motors, IEE Proc Control Theory Appl **146**(2) 186-196 (Mar 1999), 12A445
Disturbance-observer-based nonlinear friction compensation in table drive system, IEEE/ASME Trans Mechatronics **4**(1) 3-8 (Mar 1999), 12A465
Nonlinear adaptive control of direct-drive brushless DC motors and applications to robotic manipulators, IEEE/ASME Trans Mechatronics **4**(1) 71-81 (Mar 1999), 12A476
Nonlinear control of mechatronic systems with permanent-magnet DC motors, Mechatronics **9**(5) 539-552 (Aug 1999), 12T477
PC-based sliding-mode control applied to parallel-type double inverted pendulum system, Mechatronics **9**(5) 553-564 (Aug 1999), 12A479
Robust hybrid position-force control of redundant robots, Robotics Autonomous Syst **27**(3) 111-127 (May 1999), 12A531
Coulomb friction limit cycles in elastic positioning systems, J Dyn Syst Meas Control **121**(2) 298-301 (Jun 1999), 12A957

202D. Discrete systems

Multiplier approach for the robust design of discrete-time control systems with real-complex uncertainties, Automatica **34**(7) 851-859 (Jul 1998), 1T398
Output stabilizing robust control for discrete uncertain systems, Automatica **34**(6) 731-739 (Jun 1998), 1T399
State observer for linear time-invariant systems with quantized output, J Dyn Syst Meas Control **120**(3) 423-426 (Sep 1998), 1A405
Application of singular value decomposition method to digitally controlled large orbiting platforms, J Guidance Control Dyn **21**(4) 551-557 (Jul-Aug 1998), 1A419
LQR weight selection approach to the discrete generalized H_2 control problem, Int J Control **71**(1) 93-101 (Sep 1998), 2T491
Evaluation of discrete-time VSC on an inverted pendulum apparatus with additional dynamics, Appl Math Comp Sci **8**(1) 159-181 (1998), 2A499
Polar coordinate based sliding mode design for vibration control, Appl Math Comp Sci **8**(1) 39-50 (1998), 2A500
Time-optimal control of redundant manipulators, Appl Math Comp Sci **7**(2) 333-341 (1997), 2A501
New approach for frequency weighted L_2 model reduction of discrete-time systems, Optimal Control Appl Methods **19**(3) 147-167 (May-Jun 1998), 3T398
Variable structure control of discrete-time systems in delta operator description (Chinese), J Shanghai Jiaotong Univ **32**(8) 69-72 (Aug 1998), 4A395
Solution bounds for the discrete Riccati equation and its application, J Optim Theory Appl **99**(2) 443-463 (Nov 1998), 5T353
Stability of discrete closed-loop control system using nonlinear transfer functions (Chinese), J Xi'an Jiaotong Univ **32**(11) 8-12 (1998), 5A355
Design of optimal reduced order filter for unstable discrete time systems, IEE Proc Control Theory Appl **145**(5) 397-404 (Sep 1998), 6A340
Direct method of constructing H_2-Suboptimal controllers: Discrete-time systems, J Optim Theory Appl **99**(3) 617-653 (Dec 1998), 6T362
LQG controllers for discrete-time multivariable systems with different transport delays in signal channels, IEE Proc Control Theory Appl **145**(5) 449-462 (Sep 1998), 6A364
Control of a constrained multibody system, Comput Methods Appl Mech Eng **167**(1-2) 119-126 (Dec 1998), 6A374

Design of an input amplitude-constrained discrete-time control system, J Syst Control Eng **212**(I5) 339-344 (1998), 6T375
Discrete-time frequency weighted model reduction and application to sampled-data models, Optimal Control Appl Methods **19**(5) 315-329 (Sep-Oct 1998), 7A340
Adaptive quasi-sliding mode control for discrete-time multivariable systems, Int J Control **72**(2) 133-140 (Jan 1999), 7T350
Deadbeat control system with time-varying uncertainty: Minimization of worst case steady-state tracking error, Int J Control **72**(2) 141-149 (Jan 1999), 7T352
New design method for pulse-width modulation control system via digital redesign, J Guidance Control Dyn **22**(1) 123-128 (Jan-Feb 1999), 7T357
Recent developments in generalized predictive control for continuous-time systems, Int J Control **72**(2) 164-173 (Jan 1999), 7T360
Delta operator approach to discrete-time H_∞ control, Int J Control **72**(4) 315-320 (Mar 1999), 8T379
Discrete-time singular observers: H_2-H_∞ optimality and unknown inputs, Int J Control **72**(6) 481-492 (Apr 1999), 9T434
H_∞ control of a flexible gantry robot arm using smart actuators, Mechatronics **9**(3) 271-286 (Apr 1999), 10A466
Optimal compensation by linear robust control for uncertain systems, Dyn Control **9**(2) 135-148 (Apr 1999), 11A368
Exponential stabilization of state-delay systems, IEE Proc Control Theory Appl **146**(2) 131-136 (Mar 1999), 12T350
Control of sensory perception in discrete event systems using stochastic dynamic programming, J Dyn Syst Meas Control **121**(2) 200-205 (Jun 1999), 12A384
Dynamic programming method for constrained discrete-time optimal control, J Optim Theory Appl **101**(2) 259-283 (May 1999), 12T385
Structure theory of Choice-free Petri nets based on eigenvalues, J Franklin Inst **336**(5) 833-849 (Jul 1999), 12A400
Feedforward controller by modified series approximation, IEEE/ASME Trans Mechatronics **3**(3) 249-251 (Sep 1998), 12A409
Generalized optimal zero phase error tracking controller design, J Dyn Syst Meas Control **121**(2) 165-170 (Jun 1999), 12A411
Optimal digital design of hybrid uncertain systems using genetic algorithms, IEE Proc Control Theory Appl **146**(2) 119-130 (Mar 1999), 12T417

202E. Distributed parameter and delayed systems

Adaptive algorithm for the tuning of two input shaping methods, Automatica **34**(6) 771-776 (Jun 1998), 1A360
Quasi-tracking approach for finite-time control of a mass-beam system, Automatica **34**(7) 881-888 (Jul 1998), 1A383
One-dimensional distributed modal sensors and the active modal control for planar structures, J Acoust Soc Am **104**(1) 217-225 (Jul 1998), 1A386
Robust design of stabilizing controllers for interconnected time-delay systems, Automatica **34**(6) 795-800 (Jun 1998), 1A403
Position control of flexible robot arms using mechanical waves, J Dyn Syst Meas Control **120**(3) 334-339 (Sep 1998), 1A431
Structural control of distributed parameter systems by output feedback, J Dyn Syst Meas Control **120**(3) 322-327 (Sep 1998), 1A432
Lagrange multiplier theorem for control problems with state constraints, Numer Functional Anal Optimization **19**(7-8) 697-704 (1998), 2A502
Robustness of a spectral assignment method applied to a flexible beam, Int J Control **70**(6) 859-872 (Aug 1998), 2A503
Structural-acoustic control system design by multilevel optimization, J Acoust Soc Am **104**(2-PT1) 926-936 (Aug 1998), 2A504
Robust model reduction for a flexible spacecraft, J Guidance Control Dyn **21**(5) 809-812 (Sep-Oct 1998), 3T192
Optimal control of a parabolic distributed parameter system via orthogonal polynomials, Optimal Control Appl Methods **19**(3) 205-213 (May-Jun 1998), 3A387
Maximum principle for optimal boundary control of vibrating structures with applications to beams, Dyn Control **8**(4) 355-375 (Oct 1998), 3A395
Optimal control of a class of time-delayed distributed systems by orthogonal functions, J Franklin Inst **335B**(8) 1477-1492 (Nov 1998), 3A396
Adaptive variable structure control design for uncertain time-delayed systems with nonlinear input, Dyn Control **8**(4) 341-354 (Oct 1998), 3T397
Torque shaping using trigonometric series expansion for slewing of flexible structures. J Guidance Control Dyn **21**(5) 698-703 (Sep-Oct 1998), 3A407
Boundary controllability of a hybrid system consisting in two flexible beams connected by a point mass, SIAM J Control Optim **36**(5) 1576-1595 (Sep 1998), 3T408
Optimal control of a distributed hyperbolic system with multiple time-varying lags, Int J Control **71**(3) 419-435 (Oct 1998), 4T386
Synthesis of real-time robust flexible structure controllers, J Guidance Control Dyn **21**(6) 1001-1004 (Nov-Dec 1998), 5T387
Boundary control of an axially moving string via Lyapunov method, J Dyn Syst Meas Control **121**(1) 105-110 (Mar 1999), 6A152
Stabilization of an axially moving string by nonlinear boundary feedback, J Dyn Syst Meas Control **121**(1) 117-126 (Mar 1999), 6A154
LQG controllers for discrete-time multivariable systems with different transport delays in signal channels, IEE Proc Control Theory Appl **145**(5) 449-462 (Sep 1998), 6A364
Efficient computational method of boundary optimal control problems for the Burgers equation, Comput Methods Appl Mech Eng **166**(3-4) 289-308 (Nov 1998), 6A376
Problems of conflict control of high dimensionality functional systems, J Appl Math Mech **62**(4) 545-554 (1998), 6A377
Digital modeling and hybrid control of sampled-data uncertain system with input time delay using the law of mean, Appl Math Model **23**(2) 131-152 (Feb 1999), 6A378
Exponential stability of the stochastic system with variable delays (Chinese), J Huazhong Univ Sci Tech **26**(10) 1-3 (Oct 1998), 6A379
Double-controller scheme for control of processes with dominant delay, IEE Proc Control Theory Appl **145**(5) 479-484 (Sep 1998), 6A384
Aeroelastic structural acoustic control, J Acoust Soc Am **105**(2) 743-754 (Feb 1999), 7A347
Robust transition control structure for time-delay systems, Int J Control **72**(2) 150-163 (Jan 1999), 7T348
Modeling and control of a flexible structure incorporating inertial slip-stick actuators, J Guidance Control Dyn **22**(1) 36-42 (Jan-Feb 1999), 7A383
Robust and H_∞ stabilization of interconnected systems with delays, IEE Proc Control Theory Appl **145**(6) 559-567 (Nov 1998), 8T386
Stabilizing output-feedback linear quadratic control for pure input-delayed systems, Int J Control **72**(5) 385-391 (Mar 1999), 8T388
Closed-form methods for generating on-off commands for undamped flexible spacecraft, J Guidance Control Dyn **22**(2) 378-382 (Mar-Apr 1999), 8T396
Robust boundary control for linear time-varying infinite dimensional systems, Int J Control **72**(5) 392-403 (Mar 1999), 8T397
Design of an iterative learning controller for a class of linear dynamic systems with time delay, IEE Proc Control Theory Appl **145**(6) 507-512 (Nov 1998), 8A399
LMI approach to suboptimal guaranteed cost control for uncertain time-delay systems, IEE Proc Control Theory Appl **145**(6) 491-498 (Nov 1998), 8T404
Decentralized stabilizing state feedback controllers for a class of large-scale systems including state delays in the interconnections, J Optim Theory Appl **100**(1) 59-87 (Jan 1999), 9T414
H_∞-controllers for time-delay systems using linear matrix inequalities, J Optim Theory Appl **100**(1) 89-122 (Jan 1999), 9A437
Continuous sliding mode control for systems subjected to nonlinear multiple time-varying delayed perturbations, JSME Int J Ser C **40**(4) 723-729 (Dec 1997), 9A446
Behavioral approach to control of distributed systems, SIAM J Control Optim **27**(2) 388-408 (Nov 1998), 9T448
Design of observer-based controller for perturbed time-delay systems, JSME Int J Ser C **42**(1) 129-132 (Mar 1999), 9A449
Note on stability of neutral delay-differential systems, J Franklin Inst **336**(3) 543-548 (Apr 1999), 9A450
Robust stability analysis of time delay control systems, JSME Int J Ser C **42**(1) 147-153 (Mar 1999), 9A451
Robust stabilization of singular systems including state delay via sliding mode control, JSME Int J Ser C **41**(2) 255-259 (Jun 1998), 9A452
Stabilization method for nonlinear time-delay systems and its dynamics, JSME Int J Ser C **41**(1) 60-67 (Mar 1998), 9A453
Observer-based controller design for uncertain large-scale systems with time-delays in subsystem interconnections, JSME Int J Ser C **42**(1) 123-128 (Mar 1999), 9A459
Duality approach in the optimization of beams and plates, SIAM J Control Optim **27**(2) 486-501 (Nov 1998), 9T1075
Optimal digital redesign of a cascaded continuous-time system with input time delays, JSME Int J Ser C **41**(3) 421-429 (Sep 1998), 9A1078
Robust stability analysis of interval systems with multiple time-varying delays; Evolutionary programming approach, J Franklin Inst **336**(4) 711-720 (May 1999), 10A429
Synthesis of finite-dimensional Riccati-based feedback controls for problems arising in structural acoustics, J Franklin Inst **336**(4) 565-588 (May 1999), 10A430
Continuous-time generalized predictive control of delay systems, IEE Proc Control Theory Appl **146**(1) 65-75 (Jan 1999), 10T432
Robust linearizing controllers for nonlinear time-delay systems, IEE Proc Control Theory Appl **146**(1) 91-97 (Jan 1999), 10A438
Solutions of continuous-time preview two-player differential games, J Dyn Syst Meas Control **121**(2) 326-331 (Jun 1999), 12T401
Stability robustness analysis of linear systems with delayed perturbations, J Franklin Inst **336**(5) 755-765 (Jul 1999), 12A402
Tuned vibration control of slender structures, Int J Numer Methods Eng **45**(9) 1243-1255 (Jul 1999), 12A403
On-off control with specified fuel usage, J Dyn Syst Meas Control **121**(2) 206-212 (Jun 1999), 12A416
Dynamic contact sensing by flexible beam, IEEE/ASME Trans Mechatronics **3**(4) 254-264 (Dec 1998), 12A466
Social potential fields: A distributed behavioral control for autonomous robots, Robotics Autonomous Syst **27**(3) 171-194 (May 1999), 12T518

202F. Stochastic systems

Robust H_∞ control in the presence of stochastic uncertainty, Int J Control **71**(2) 219-237 (Sep 1998), 3T389
Stochastic H^∞, SIAM J Control Optim **36**(5) 1504-1538 (Sep 1998), 3T390
Optimal control of a stochastic assembly production line, J Optim Theory Appl **98**(3) 681-700 (Sep 1998), 3A481
Maximum principle for a stochastic optimal control problem and application to portfolio-consumption choice, J Optim Theory Appl **98**(3) 719-731 (Sep 1998), 3T486
Local state covariance assignment for stochastic large-scale systems, J Dyn Syst Meas Control **121**(1) 139-142 (Mar 1999), 6A354
Digital modeling and hybrid control of sampled-data uncertain system with input time delay using the law of mean, Appl Math Model **23**(2) 131-152 (Feb 1999), 6A378
Exponential stability of the stochastic system with variable delays (Chinese), J Huazhong Univ Sci Tech **26**(10) 1-3 (Oct 1998), 6A379
Successive approximations of linear control models, SIAM J Control Optim **37**(1) 165-176 (Sep-Nov 1998), 7T346
Spectral Theory of Dynamical Systems (Birkhauser Boston, MA, 1998) 9N19
Stochastic Controls: Hamiltonian Systems and HJB Equations (Springer-Verlag, New York, 1999) 9N20
Adaptive robust control for nonlinear systems with mismatched uncertainties, JSME Int J Ser C **41**(4) 751-758 (Dec 1998), 9A405
Computational Stochastic Mechanics (Balkema, Rotterdam, Netherlands, 1999) 10N1
Fully coupled forward-backward stochastic differential equations and applications to optimal control, SIAM J Control Optim **37**(3) 825-843 (Feb 1999), 11T366
Backstepping controller design for nonlinear stochastic systems under a risk-sensitive cost criterion, SIAM J Control Optim **37**(3) 957-995 (Feb 1999), 11A370
Robust inventory-production control problem with stochastic demand, Optimal Control Appl Methods **20**(1) 1-20 (Jan-Feb 1999), 11A450
Robust stochastic stabilization of discrete-time linear systems with Markovian jumping parameters, J Dyn Syst Meas Control **121**(2) 331-334 (Jun 1999), 12A354
Optimal control of a stochastic hybrid system with discounted cost, J Optim Theory Appl **101**(3) 557-580 (Jun 1999), 12T391
Stability analysis of fuzzy systems, J Franklin Inst **336**(5) 851-873 (Jul 1999), 12A404
Absolute stabilization and minimax optimal control of uncertain systems with stochastic uncertainty, SIAM J Control Optim **37**(4) 1089-1122 (Apr 1999), 12T405

202H. Other systems and techniques

New algorithm for compensator design for higher-order system via reduced model, Automatica **34**(7) 917-920 (Jul 1998), 1A378
Disturbance decoupled observers for a class of bilinear systems, J Dyn Syst Meas Control **120**(3) 371-377 (Sep 1998), 1A380
Sliding mode controllers for uncertain systems with input nonlinearities, J Guidance Control Dyn **21**(4) 666-669 (Jul-Aug 1998), 1T384
Stabilization and tracking via output feedback for the nonlinear benchmark system, Automatica **34**(7) 907-915 (Jul 1998), 1T385
Adaptive robust control under unknown plant orders, Automatica **34**(6) 723-730 (Jun 1998), 1A387
Algorithm for approximate model matching for loops with non-negligible feedback dynamics, J Dyn Syst Meas Control **120**(3) 394-398 (Sep 1998), 1A388
Approximate I-O feedback linearization of discrete-time nonlinear systems via virtual input direct design, Automatica **34**(6) 715-722 (Jun 1998), 1T389
Design of robust adaptive controllers for nonlinear systems with dynamic uncertainties, Automatica **34**(7) 825-840 (Jul 1998), 1A390
Enhanced PID control strategy for unstable process, Automatica **34**(6) 751-756 (Jun 1998), 1A391
Gain-bandwidth optimal design for the new formulation quantitative feedback theory, J Dyn Syst Meas Control **120**(3) 401-404 (Sep 1998), 1A392
Generic parametric controller design using output feedback eigenstructure assignment, J Syst Control Eng **212**(I2) 71-78 (1998), 1T393
Global control of linear systems with saturating actuators, Automatica **34**(7) 897-905 (Jul 1998), 1T394
H^2 output feedback control for descriptor systems, Automatica **34**(7) 841-850 (Jul 1998), 1T395
H_∞ formulation of quantitative feedback theory, J Dyn Syst Meas Control **120**(3) 305-313 (Sep 1998), 1A396
Mechanical system regulation using matrix quadratic models: A review, J Syst Control Eng **212**(I2) 129-147 (1998), 1A397
Multiplier approach for the robust design of discrete-time control systems with real-complex uncertainties, Automatica **34**(7) 851-859 (Jul 1998), 1T398
Output stabilizing robust control for discrete uncertain systems, Automatica **34**(6) 731-739 (Jun 1998), 1T399
P-D feedback for decoupling and pole assignment of singular systems, J Dyn Syst Meas Control **120**(3) 378-388 (Sep 1998), 1A400
Recursive deadbeat controller design, J Guidance Control Dyn **21**(4) 624-631 (Jul-Aug 1998), 1A401
Reliable control of uncertain nonlinear systems, Automatica **34**(7) 875-879 (Jul 1998), 1T402
Robust design of stabilizing controllers for interconnected time-delay systems, Automatica **34**(6) 795-800 (Jun 1998), 1A403
Robustness and trade-offs in repetitive control, Automatica **34**(7) 889-896 (Jul 1998), 1T404
State observer for linear time-invariant systems with quantized output, J Dyn Syst Meas Control **120**(3) 423-426 (Sep 1998), 1A405
Suboptimal N-step-ahead cautious controller for adaptive control applications, J Dyn Syst Meas Control **120**(3) 419-423 (Sep 1998), 1A406
Using bifurcation methods to aid nonlinear dynamic inversion control law design, J Guidance Control Dyn **21**(4) 632-638 (Jul-Aug 1998), 1A407
Application of singular value decomposition method to digitally controlled large orbiting platforms, J Guidance Control Dyn **21**(4) 551-557 (Jul-Aug 1998), 1A419
Decoupling control design with applications to flight, J Guidance Control Dyn **21**(4) 647-655 (Jul-Aug 1998), 1A424
Control chart pattern recognition using a new type of self-organizing neural network, J Syst Control Eng **212**(I2) 115-127 (1998), 1T440
Recognition of base-plate acceleration feedback embedded in stage positioning control system (Japanese), J Japan Soc Precision Eng **64**(7) 1017-1021 (Jul 1998), 2T472
LQR weight selection approach to the discrete generalized H_2 control problem, Int J Control **71**(1) 93-101 (Sep 1998), 2T491
Mixed-norm H_2/L_1 controller synthesis via fixed-order dynamic compensation: A Riccati equation approach, Int J Control **71**(1) 35-59 (Sep 1998), 2T492
Active control of cantilevered pipes conveying fluid with constraints on input energy, J Fluids Struct **12**(5) 615-628 (Jul 1998), 2T505
Adaptive robust backstepping control schemes suitable for PM synchronous motors, Int J Control **70**(6) 893-920 (Aug 1998), 2A506
Approximate nonlinear receding-horizon control laws in closed form, Int J Control **71**(1) 19-34 (Sep 1998), 2T507
Closed loop cancellations in H_∞ control of time-varying systems, Int J Control **71**(1) 163-189 (Sep 1998), 2T508
Estimation of the practical stability region of a class of robust controllers with input constraint, J Franklin Inst **335B**(7) 1271-1281 (Sep 1998), 2A509
H_∞ control for systems with jumps, Int J Control **70**(6) 941-964 (Aug 1998), 2T510
Implicit state estimators and their application to pole assignment controllers for systems with uncertainties, Appl Math Comp Sci **8**(1) 101-122 (1998), 2A511
Improved dual version of the generalized minimum variance controller, Int J Control **71**(1) 131-143 (Sep 1998), 2T512
Nonlinear H_∞ control and related problems of homogeneous systems, Int J Control **71**(1) 79-92 (Sep 1998), 2T513
Pole-zero cancellation in time-varying systems, Int J Control **71**(1) 103-130 (Sep 1998), 2T514

Robust disturbance attenuation with stability for a class of uncertain signularly perturbed systems, Int J Control **70**(6) 873-891 (Aug 1998), 2T515
Robustness of the minimal control synthesis algorithm with minimal phase plant dynamics of unknown order but known relative degree, Int J Control **71**(1) 1-17 (Sep 1998), 2T516
Developing AGVS Petri net control models from flowpath nets, J Manuf Syst **17**(4) 237-250 (1998), 2A582
3-1/2 dof polynomial solution of the inferential H_2/H_∞ control problem with application to metal rolling, J Dyn Syst Meas Control **120**(4) 445-455 (Dec 1998), 3A381
Controllability issues in nonlinear state-dependent Riccati equation control, J Guidance Control Dyn **21**(5) 767-773 (Sep-Oct 1998), 3T383
Linear-quadratic worst-case control, J Guidance Control Dyn **21**(5) 761-766 (Sep-Oct 1998), 3A385
Multi-step H_∞ generalized predictive control, Dyn Control **8**(4) 303-339 (Oct 1998), 3T386
Stochastic H^∞, SIAM J Control Optim **36**(5) 1504-1538 (Sep 1998), 3T390
Adaptive control of nonlinear, uncertain systems using local function estimation, J Dyn Syst Meas Control **120**(4) 429-438 (Dec 1998), 3A391
Applications of adaptive controllers to systems with nonlinear parametrization, J Dyn Syst Meas Control **120**(4) 477-487 (Dec 1998), 3A392
Feedback stabilization of bilinear control systems, SIAM J Control Optim **36**(5) 1669-1684 (Sep 1998), 3T393
Adaptive variable structure control design for uncertain time-delayed systems with nonlinear input, Dyn Control **8**(4) 341-354 (Oct 1998), 3T397
New approach for frequency weighted L_2 model reduction of discrete-time systems, Optimal Control Appl Methods **19**(3) 147-167 (May-Jun 1998), 3T398
Nonlinear generalized predictive control applied to muscle relaxant anaesthesia, Int J Control **71**(2) 239-257 (Sep 1998), 3T399
Optimal robust tracking subject to disturbances, noise, plant uncertainty, and performance constraints, J Guidance Control Dyn **21**(5) 774-779 (Sep-Oct 1998), 3A400
Predictive controllers for feedback stabilization, J Guidance Control Dyn **21**(5) 747-753 (Sep-Oct 1998), 3A401
Entry trajectory tracking law via feedback linearization, J Guidance Control Dyn **21**(5) 726-732 (Sep-Oct 1998), 3T404
Experimental and theoretical results in output-trajectory redesign for flexible structures, J Dyn Syst Meas Control **120**(4) 456-461 (Dec 1998), 3A412
Robust, digital, nonlinear control of magnetic-levitation systems, J Dyn Syst Meas Control **120**(4) 488-495 (Dec 1998), 3A436
Robot trajectory control system design for multiple simultaneous specifications: Theory and experimentation, J Dyn Syst Meas Control **120**(4) 520-523 (Dec 1998), 3A468
Input disturbance estimation in the bounded noise context, Int J Control **71**(3) 505-516 (Oct 1998), 4T356
Time-domain performance of multivariable systems in response to fixed inputs, Int J Control **71**(3) 437-458 (Oct 1998), 4A363
Computation of optimal singular and bang-bang controls, Optimal Control Appl Methods **19**(4) 287-297 (Jul-Aug 1998), 4T379
Chattering elimination algorithm for sliding mode control of uncertain nonlinear systems, Mechatronics **8**(7) 765-775 (Oct 1998), 4A389
Inversion-based sliding control of a flexible-link manipulator, Int J Control **71**(3) 477-490 (Oct 1998), 4A391
Adaptive linear quadratic Gaussian control: The cost-biased approach revisited, SIAM J Control Optim **36**(6) 1890-1907 (Nov 1998), 4T396
Calculation of recoverable sets for systems with input and state constraints, Optimal Control Appl Methods **19**(4) 247-269 (Jul-Aug 1998), 4T397
Compensator based output feedback sliding mode controller design, Int J Control **71**(4) 601-614 (Nov 1998), 4T398
New approach for gain constrained robust controller design (Chinese), J Shanghai Jiaotong Univ **32**(6) 74-77 (Jun 1998), 4A399
High speed railway: Collecting pantographs active control and overhead lines diagnostic solutions, Vehicle Syst Dyn **30**(1) 69-84 (Jul 1998), 4A400
Dynamics and fuzzy control of a levitated particle, Nonlinear Dyn **17**(1) 61-76 (Sep 1998), 4A427
Low-dimensional control of the circular cylinder wake, J Fluid Mech **371** 157-178 (Sep 1998), 4A1180
Development and flight testing of a parameter identification algorithm for reconfigurable control, J Guidance Control Dyn **21**(6) 948-956 (Nov-Dec 1998), 5A320
Gain-weighted eigenspace assignment, J Guidance Control Dyn **21**(6) 1009-1012 (Nov-Dec 1998), 5T356
Robust approximate pole assignment for second-order systems: Neural network computation, J Guidance Control Dyn **21**(6) 923-929 (Nov-Dec 1998), 5A357
Robust control of linear parametrically varying systems with bounded rates, J Guidance Control Dyn **21**(6) 916-922 (Nov-Dec 1998), 5T358
Stabilizing controller design for linear parameter-varying systems using parameter feedback, J Guidance Control Dyn **21**(6) 891-898 (Nov-Dec 1998), 5A359
Command shaping in tracking control of a two-link flexible robot, J Guidance Control Dyn **21**(6) 1012-1015 (Nov-Dec 1998), 5T381
Synthesis of real-time robust flexible structure controllers, J Guidance Control Dyn **21**(6) 1001-1004 (Nov-Dec 1998), 5T387
Boundary control of an axially moving string via Lyapunov method, J Dyn Syst Meas Control **121**(1) 105-110 (Mar 1999), 6A152
Stabilization of an axially moving string by nonlinear boundary feedback, J Dyn Syst Meas Control **121**(1) 117-126 (Mar 1999), 6A154
Analysis of sensitivity measures of finite-precision digital controller structures with closed-loop stability bounds, IEE Proc Control Theory Appl **145**(5) 472-478 (Sep 1998), 6T339
Local state covariance assignment for stochastic large-scale systems, J Dyn Syst Meas Control **121**(1) 139-142 (Mar 1999), 6A354
Optimizing performance indices with pole assignment constraints, J Syst Control Eng **212**(I5) 327-337 (1998), 6T367
Design of a sliding mode controller with fuzzy sliding surfaces, IEE Proc Control Theory Appl **145**(5) 411-418 (Sep 1998), 6A371
Nonlinear robust controller for a class of nonlinear uncertain systems, IEE Proc Control Theory Appl **145**(5) 405-410 (Sep 1998), 6A372
Recent advances in control of nonlinear systems, Int J Control **71**(5) 689-979 (Nov 1998), 6A373
Design of an input amplitude-constrained discrete-time control system, J Syst Control Eng **212**(I5) 339-344 (1998), 6T375
Application of interior-point methods to model predictive control, J Optim Theory Appl **99**(3) 723-757 (Dec 1998), 6T380
Autotuning gain parameter implementation with fuzzy learning control scheme for DC brushless servo system, IEE Proc Control Theory Appl **145**(5) 419-427 (Sep 1998), 6A381
Constrained multivariable cautious stable predictive control, IEE Proc Control Theory Appl **145**(5) 385-391 (Sep 1998), 6T382
Disturbance attenuating adaptive controllers for parametric strict feedback nonlinear systems with output measurements, J Dyn Syst Meas Control **121**(1) 48-57 (Mar 1999), 6A383
Double-controller scheme for control of processes with dominant delay, IEE Proc Control Theory Appl **145**(5) 479-484 (Sep 1998), 6A384
Filtered reference and filtered error LMS algorithms for adaptive feedforward control, Mech Syst Signal Processing **12**(6) 769-781 (Nov 1998), 6T385
Gain bounds in the minimal controller synthesis algorithm, J Syst Control Eng **212**(I5) 345-360 (1998), 6A386
Multivariable feedback active structural acoustic control using adaptive piezoelectric sensoriactuators, J Acoust Soc Am **105**(1) 219-225 (Jan 1999), 6A387
Optimal ripple-free deadbeat controllers, Int J Control **71**(6) 1087-1104 (Dec 1998), 6T388
Performance enhancement of fixed regulating systems via actuator saturation, J Dyn Syst Meas Control **121**(1) 34-40 (Mar 1999), 6A389
PID tuning for unstable processes based on gain and phase-margin specifications, IEE Proc Control Theory Appl **145**(5) 392-396 (Sep 1998), 6A390
Predictive control for nonlinear systems using neural networks, Int J Control **71**(6) 1119-1132 (Dec 1998), 6A391
Robustness enhancement of an optimal fuzzy control electrical position servo system by a novel model-following approach, J Syst Control Eng **212**(16) 449-458 (1998), 6T392
Self-tuning proportional, integral and derivative controller based on genetic algorithm least squares, J Syst Control Eng **212**(16) 437-448 (1998), 6A393
Sliding mode observers via equivalent control approach, Int J Control **71**(6) 1051-1067 (Dec 1998), 6A394
Special issue: Flow control and optimization, Iowa State University and York University, Ames, Iowa , September 1998, Int J Comput Fluid Dyn **11**(1-2) 3-191 (1998), 6A395
Stick-slip oscillations: Dynamics of friction and surface roughness, J Acoust Soc Am **105**(1) 194-205 (Jan 1999), 6A396
Time-delay sliding mode control for a servo, J Dyn Syst Meas Control **121**(1) 143-148 (Mar 1999), 6A397
Tangential-contouring controller for biaxial motion control, J Dyn Syst Meas Control **121**(1) 126-133 (Mar 1999), 6A401
Vibration and position tracking control of piezoceramic-based smart structures via QFT, J Dyn Syst Meas Control **121**(1) 27-33 (Mar 1999), 6A411
Bifurcation-based procedure for designing and analyzing robustly stable nonlinear hydraulic servo systems, J Syst Control Eng **212**(I5) 383-394 (1998), 6A413
Design of a hydraulic force control system using a generalized predictive control algorithm, IEE Proc Control Theory Appl **145**(5) 428-436 (Sep 1998), 6A414
Tracking control of robot manipulator using sliding mode controller with performance robustness, J Dyn Syst Meas Control **121**(1) 64-70 (Mar 1999), 6A471
Simultaneous guaranteed-cost vector-optimal performance design for collections of systems, J Guidance Control Dyn **22**(1) 96-102 (Jan-Feb 1999), 7A345
Successive approximations of linear control models, SIAM J Control Optim **37**(1) 165-176 (Sep-Nov 1998), 7T346
Robust transition control structure for time-delay systems, Int J Control **72**(2) 150-163 (Jan 1999), 7T348
Active impedance control of linear 1D wave equations, Int J Control **72**(3) 247-257 (Feb 1999), 7T349
Adaptive quasi-sliding mode control for discrete-time multivariable systems, Int J Control **72**(2) 133-140 (Jan 1999), 7T350
Continuous adaptive robust controllers guaranteeing uniform ultimate boundedness for uncertain nonlinear systems, Int J Control **72**(2) 115-122 (Jan 1999), 7T351
Deadbeat control system with time-varying uncertainty: Minimization of worst case steady-state tracking error, Int J Control **72**(2) 141-149 (Jan 1999), 7T352
Fluid mechanics of microdevices - The Freeman scholar lecture, J Fluids Eng **121**(1) 5-33 (Mar 1999), 7A353
Γ parameter perturbation and design of robust controllers for linear systems, Int J Control **72**(3) 267-275 (Feb 1999), 7T354
Model reference robust control for non-minimum phase systems with disturbances, Int J Control **72**(2) 123-132 (Jan 1999), 7T355
New decentralized robust controller design for multi-area load-frequency control via in complete state feedback, Optimal Control Appl Methods **19**(5) 345-361 (Sep-Oct 1998), 7A356
New design method for pulse-width modulation control system via digital redesign, J Guidance Control Dyn **22**(1) 123-128 (Jan-Feb 1999), 7T357
Observer-based anti-windup scheme for nonlinear systems with input constraints, Int J Control **72**(1) 18-29 (Jan 1999), 7T358
Parallel algorithm for predictive control of large-scale systems, J Eng Appl Sci **45**(5) 823-840 (Oct 1998), 7A359
Recent developments in generalized predictive control for continuous-time systems, Int J Control **72**(2) 164-173 (Jan 1999), 7T360
Algorithm to solve the discrete HJI equation arising in the L_2 gain optimization problem, Int J Control **72**(1) 49-57 (Jan 1999), 7T361
Active control of a truck full-trailer's rearward amplification, Heavy Vehicle Syst **5**(3-4) 277-299 (1998), 7A374
Expected residual vibration of traditional and hybrid input shaping designs, J Guidance Control Dyn **22**(1) 162-165 (Jan-Feb 1999), 7T380
Sliding mode control for a class of hydraulic position servo, Mechatronics **9**(1) 111-123 (Feb 1999), 7A391
Flow control with noncircular jets, Annu Rev Fluid Mech **31** 239-272 (1999), 7A1064
Gain-scheduled control using fuzzy logic and its application to flight control, J Guidance Control Dyn **22**(1) 175-178 (Jan-Feb 1999), 7T1131
Application of the Nyquist stability criterion on the Nichols chart, J Guidance Control Dyn **22**(2) 360-362 (Mar-Apr 1999), 8T357
Rule regulation of indirect adaptive fuzzy controller design, IEE Proc Control Theory Appl **145**(6) 513-518 (Nov 1998), 8T370
Creating time-optimal commands with practical constraints, J Guidance Control Dyn **22**(2) 241-250 (Mar-Apr 1999), 8A378
Delta operator approach to discrete-time H_∞ control, Int J Control **72**(4) 315-320 (Mar 1999), 8T379
Generalized plants for H_∞ robust controller design, J Guidance Control Dyn **22**(2) 366-369 (Mar-Apr 1999), 8T383
Robust maximum principle in minimax control, Int J Control **72**(4) 305-314 (Mar 1999), 8T387
Stabilizing output-feedback linear quadratic control for pure input-delayed systems, Int J Control **72**(5) 385-391 (Mar 1999), 8T388
Adaptive control techniques for friction compensation, Mechatronics **9**(2) 125-145 (Mar 1999), 8A390
Discrete adaptive quasi-sliding mode control, Int J Control **72**(4) 365-373 (Mar 1999), 8A392
Robust control design for a class of uncertain nonlinear systems featuring a second-order sliding mode, Int J Control **72**(4) 321-331 (Mar 1999), 8T394
Sliding mode control of mechanical systems with bounded disturbances via output feedback, J Guidance Control Dyn **22**(2) 235-240 (Mar-Apr 1999), 8A395
Closed-form methods for generating on-off commands for undamped flexible spacecraft, J Guidance Control Dyn **22**(2) 378-382 (Mar-Apr 1999), 8T396
Robust boundary control for linear time-varying infinite dimensional systems, Int J Control **72**(5) 392-403 (Mar 1999), 8T397
Comparison of μ- and H_2-synthesis controllers on an experimental typical section, J Guidance Control Dyn **22**(2) 278-285 (Mar-Apr 1999), 8T398
Design of an iterative learning controller for a class of linear dynamic systems with time delay, IEE Proc Control Theory Appl **145**(6) 507-512 (Nov 1998), 8A399
Design of reduced-order multirate observers and stabilizing multirate controllers via singular perturbation theory, Optimal Control Appl Methods **19**(6) 435-445 (Nov-Dec 1998), 8T400
Efficient, near-optimal control allocation, J Guidance Control Dyn **22**(2) 369-372 (Mar-Apr 1999), 8T401
Genetic algorithm based methodology to generate automatically optimal fuzzy systems, IEE Proc Control Theory Appl **145**(6) 583-586 (Nov 1998), 8T402
Heterogeneous intelligent control systems, IEE Proc Control Theory Appl **145**(6) 551-558 (Nov 1998), 8T403
LMI approach to suboptimal guaranteed cost control for uncertain time-delay systems, IEE Proc Control Theory Appl **145**(6) 491-498 (Nov 1998), 8T404
Modified feasible method for hierarchical steady-state control of complex systems, IEE Proc Control Theory Appl **145**(6) 603-607 (Nov 1998), 8T405
PID tuning based on loop-shaping H_∞ control, IEE Proc Control Theory Appl **145**(6) 485-490 (Nov 1998), 8A406
Robust control for uncertain linear systems with sinusoidal disturbance of uncertain frequencies, IEE Proc Control Theory Appl **145**(6) 531-536 (Nov 1998), 8A407
Adaptive control of electrically driven space robots based on virtual decomposition, J Guidance Control Dyn **22**(2) 329-339 (Mar-Apr 1999), 8T418
Nonminimal state space approach to multivariable ramp metering control of motorway bottlenecks, IEE Proc Control Theory Appl **145**(6) 568-574 (Nov 1998), 8T426
Nonlinear optimal control approach to central sewer network flow control, Int J Control **72**(5) 418-429 (Mar 1999), 8A456
Characterizing sensitivity-based and traditional formulations for quantitative feedback theory, Int J Control **72**(6) 536-545 (Apr 1999), 9T400
Decentralized stabilizing state feedback controllers for a class of large-scale systems including state delays in the interconnections, J Optim Theory Appl **100**(1) 59-87 (Jan 1999), 9T414
Asymptotic behavior of the attainable sets of linear periodic control systems, J Optim Theory Appl **100**(2) 349-364 (Feb 1999), 9T425
H_∞ control of diffusion systems by using a finite-dimensional controller, SIAM J Control Optim **27**(2) 409-428 (Nov 1998), 9T436
H_∞-controllers for time-delay systems using linear matrix inequalities, J Optim Theory Appl **100**(1) 89-122 (Jan 1999), 9A437
Optimal infinite-horizon multicriteria feedback control of stationary systems with minimax objectives and bounded disturbances, J Optim Theory Appl **101**(1) 59-71 (Apr 1999), 9T441
Behavioral approach to control of distributed systems, SIAM J Control Optim **27**(2) 388-408 (Nov 1998), 9T448
Asymptotic stability analysis for collocated direct output feedback control of flexible systems, JSME Int J Ser C **40**(4) 709-716 (Dec 1997), 9A454
Decentralized PID control systems design on frequency domain and their stability, JSME Int J Ser C **42**(1) 93-101 (Mar 1999), 9A455
Design method of VSS observer for continuous-time systems with output uncertainties, JSME Int J Ser C **40**(3) 416-424 (Sep 1997), 9A456
Design of robust direct adaptive controllers for SISO systems: Time and frequency domain design conditions, Int J Control **72**(6) 517-530 (Apr 1999), 9A457
Discrete adaptive state feedback control based on a strict positive realness and its application to the liquid container transfer system, JSME Int J Ser C **41**(3) 371-377 (Sep 1998), 9A458
Observer-based controller design for uncertain large-scale systems with time-delays in subsystem interconnections, JSME Int J Ser C **42**(1) 123-128 (Mar 1999), 9A459
Performance factorization and measurement selection for partially controlled systems, Int J Control **72**(6) 512-516 (Apr 1999), 9T460
Pole-placement design with adjustable robustness using sliding-mode technique, JSME Int J Ser C **41**(2) 248-254 (Jun 1998), 9A461
Robust ripple-free deadbeat control design, Int J Control **72**(6) 564-573 (Apr 1999), 9T462
Performance improvement of robot manipulator control using an on-line neural network compensator, J Syst Control Eng **213**(I1) 49-60 (1999), 9A473
Simple linear stabilizing controller for a RLED robot with uncertain parameters and some related appli-

cations, Int J Control **72**(6) 546-559 (Apr 1999), 9T526
Multiharmonic perturbations for nonparametric autotuning, IEE Proc Control Theory Appl **146**(1) 1-8 (Jan 1999), 10A392
Multiple model approaches to modeling and control, Int J Control **72**(7-8) 576-754 (May 1999), 10A396
Automatic design of fuzzy rule base for modeling and control using evolutionary programming, IEE Proc Control Theory Appl **146**(1) 9-16 (Jan 1999), 10A431
Continuous-time generalized predictive control of delay systems, IEE Proc Control Theory Appl **146**(1) 65-75 (Jan 1999), 10T432
Design method and application for fuzzy logical controller based on L_∞ Lyapunov functions, IEE Proc Control Theory Appl **146**(1) 17-24 (Jan 1999), 10T433
Design of output feedback controllers and output observers, IEE Proc Control Theory Appl **146**(1) 108-112 (Jan 1999), 10T434
Family of Colpitts-like chaotic oscillators, J Franklin Inst **336**(4) 687-700 (May 1999), 10A435
Genetic approach to decentralized PI controller tuning for multivariable processes, IEE Proc Control Theory Appl **146**(1) 58-64 (Jan 1999), 10A436
Indirect adaptive control via parallel dynamic neural networks, IEE Proc Control Theory Appl **146**(1) 25-30 (Jan 1999), 10T437
Robust linearizing controllers for nonlinear time-delay systems, IEE Proc Control Theory Appl **146**(1) 91-97 (Jan 1999), 10A438
Use of a recurrent neural network in discrete sliding-mode control, IEE Proc Control Theory Appl **146**(1) 84-90 (Jan 1999), 10A439
Use of frozen-time H_∞ controllers in time-varying applications, IEE Proc Control Theory Appl **146**(1) 31-36 (Jan 1999), 10T440
Eigenstructure assignment by output feedback: The case of common open- and closed-loop characteristic vectors, IEE Proc Control Theory Appl **146**(1) 37-40 (Jan 1999), 10T442
Adaptive feedback linearization for the control of a typical wing section with structural nonlinearity, Nonlinear Dyn **18**(3) 289-301 (Mar 1999), 10T447
Fuzzy neural network position controller for ultrasonic motor drive using push-pull DC-DC converter, IEE Proc Control Theory Appl **146**(1) 99-107 (Jan 1999), 10T463
Hybrid fuzzy P + ID control manipulators under uncertainty, Mechatronics **9**(3) 301-315 (Apr 1999), 10A488
Optimal and adaptive control of chaotic convection: Theory and experiments, Phys Fluids **11**(6) 1435-1448 (Jun 1999), 11A152
Backstepping controller design for nonlinear stochastic systems under a risk-sensitive cost criterion, SIAM J Control Optim **37**(3) 957-995 (Feb 1999), 11A370
Controller design of periodic time-varying systems via time-invariant methods, J Guidance Control Dyn **22**(3) 486-488 (May-Jun 1999), 11T371
Evolving control strategies for suppressing heteroclinic bursting, Dyn Control **9**(2) 149-171 (Apr 1999), 11T372
MCP insystems with continuous and discrete control inputs, Model Ident Control **19**(4) 175-184 (Oct 1998), 11T373
Robust LQ regulator for jump linear systems with uncertain parameters, Dyn Control **9**(2) 125-134 (Apr 1999), 11T374
Identifying helicopter control gains using desired output histories, J Guidance Control Dyn **22**(3) 492-494 (May-Jun 1999), 11T390
Robust adaptive control of store release event for wings with external stores, J Guidance Control Dyn **22**(3) 408-414 (May-Jun 1999), 11A391
Adaptive control of free-flying space robot with position-attitude control system, J Guidance Control Dyn **22**(3) 488-490 (May-Jun 1999), 11T420
Chattering elimination in the hybrid control of constrained manipulators via first-second order sliding mode control, Dyn Control **9**(2) 99-124 (Apr 1999), 11A421
Robust stochastic stabilization of discrete-time linear systems with Markovian jumping parameters, J Dyn Syst Meas Control **121**(2) 331-334 (Jun 1999), 12A354
Robustness effects of a prefilter in a Smith predictor-based generalized predictive controller, IEE Proc Control Theory Appl **146**(2) 179-185 (Mar 1999), 12T355
Intelligent learning control for a class of nonlinear dynamic systems, IEE Proc Control Theory Appl **146**(2) 165-170 (Mar 1999), 12A364
Robust LTV feedback synthesis for nonlinear MIMO plants, J Dyn Syst Meas Control **121**(2) 226-232 (Jun 1999), 12A380
Control of sensory perception in discrete event systems using stochastic dynamic programming, J Dyn Syst Meas Control **121**(2) 200-205 (Jun 1999), 12A384
Suboptimality of a decentralized feedback control law, J Dyn Syst Meas Control **121**(2) 305-308 (Jun 1999), 12A395
Effect of actuator saturation on the performance of PD-controlled servo systems, Mechatronics **9**(5) 497-511 (Aug 1999), 12A397
Reduction of limit cycle amplitude in the presence of backlash, J Dyn Syst Meas Control **121**(2) 278-284 (Jun 1999), 12A399
Solutions of continuous-time preview two-player differential games, J Dyn Syst Meas Control **121**(2) 326-331 (Jun 1999), 12T401
Absolute stabilization and minimax optimal control of uncertain systems with stochastic uncertainty, SIAM J Control Optim **37**(4) 1089-1122 (Apr 1999), 12T405
Almost disturbance decoupling of uncertain nonlinear output feedback systems, IEE Proc Control Theory Appl **146**(2) 220-226 (Mar 1999), 12T406
Approach to designing multivariable fuzzy controller based on genetic algorithms (Chinese), J Xi'an Jiaotong Univ **33**(6) 101-103 (1999), 12T407
Chattering-free and fast-response sliding mode controller, IEE Proc Control Theory Appl **146**(2) 171-177 (Mar 1999), 12T408
Feedforward controller by modified series approximation, IEEE/ASME Trans Mechatronics **3**(3) 249-251 (Sep 1998), 12A409
General approach to control-configured-plant design-redesign, IEE Proc Control Theory Appl **146**(2) 197-203 (Mar 1999), 12T410
Generalized optimal zero phase error tracking controller design, J Dyn Syst Meas Control **121**(2) 165-170 (Jun 1999), 12A411
Integrated approach to eigenstructure assignment by state feedback, IEE Proc Control Theory Appl **146**(2) 113-118 (Mar 1999), 12T412
Joint impedance pneumatic control for multilink systems, J Dyn Syst Meas Control **121**(2) 293-297 (Jun 1999), 12A413
Method for optimizing set-point weights in ISA-PID autotuners, IEE Proc Control Theory Appl **146**(2) 137-146 (Mar 1999), 12T414
Neurofuzzy-model-following control of MIMO nonlinear systems, IEE Proc Control Theory Appl **146**(2) 157-164 (Mar 1999), 12A415
On-off control with specified fuel usage, J Dyn Syst Meas Control **121**(2) 206-212 (Jun 1999), 12A416
Optimal digital design of hybrid uncertain systems using genetic algorithms, IEE Proc Control Theory Appl **146**(2) 119-130 (Mar 1999), 12T417
Relaxation of control systems under state constraints, SIAM J Control Optim **37**(4) 1291-1309 (Apr 1999), 12T418
Simultaneous stabilization and pole assignment by two level controllers consisting of a gain feedback and a multirate input controller, J Dyn Syst Meas Control **121**(2) 302-305 (Jun 1999), 12A419
Limitations of force tracking control for hydraulic servosystems, J Dyn Syst Meas Control **121**(2) 184-190 (Jun 1999), 12A439
Comparison of sliding-mode and fuzzy neural network control for motor-toggle servomechanism, IEEE/ASME Trans Mechatronics **3**(4) 302-318 (Dec 1998), 12A460
Customizable coherent servo demodulation for disk drives, IEEE/ASME Trans Mechatronics **3**(3) 184-193 (Sep 1998), 12A461
Disturbance-observer design for magnetic hard-disk drive servo systems, J Info Storage Processing Syst **1**(1) 75-85 (Jan 1999), 12A464
Disturbance-observer-based nonlinear friction compensation in table drive system, IEEE/ASME Trans Mechatronics **4**(1) 3-8 (Mar 1999), 12A465
Two-dof control with robust feedback control for hard disk servo systems, IEEE/ASME Trans Mechatronics **4**(1) 17-24 (Mar 1999), 12A485
Worst-case evaluation method for dynamic systems, J Dyn Syst Meas Control **121**(2) 191-199 (Jun 1999), 12A503
Robust hybrid position-force control of redundant robots, Robotics Autonomous Syst **27**(3) 111-127 (May 1999), 12A531

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Generalized conjugate gradient algorithm, J Optim Theory Appl **98**(2) 489-502 (Aug 1998), 1T377
New algorithm for compensator design for higher-order system via reduced model, Automatica **34**(7) 917-920 (Jul 1998), 1A378
Algorithm for approximate model matching for loops with non-negligible feedback dynamics, J Dyn Syst Meas Control **120**(3) 394-398 (Sep 1998), 1A388
Enhanced PID control strategy for unstable process, Automatica **34**(6) 751-756 (Jun 1998), 1A391
Recursive deadbeat controller design, J Guidance Control Dyn **21**(4) 624-631 (Jul-Aug 1998), 1A401
Algorithm for time-optimal control problems, J Dyn Syst Meas Control **120**(3) 414-418 (Sep 1998), 1A408
Dynamical robust adaptive tracking for uncertain nonlinear systems, Int J Control **70**(6) 921-939 (Aug 1998), 2A496
Finite element approximation of variational inequalities arising from elliptic control problems, Numer Functional Anal Optimization **19**(7-8) 917-932 (1998), 2A517
Robust identification by dynamic neural networks using sliding mode learning, Appl Math Comp Sci **8**(1) 135-144 (1998), 2A518
Symbolic computation toolbox for the design of dynamical adaptive nonlinear controllers, Appl Math Comp Sci **8**(1) 73-88 (1998), 2A519
Invex functions and generalized convexity in multiobjective programming, J Optim Theory Appl **98**(3) 651-661 (Sep 1998), 3T384
Optimal control of a parabolic distributed parameter system via orthogonal polynomials, Optimal Control Appl Methods **19**(3) 205-213 (May-Jun 1998), 3A387
Global control algorithm in the plane, Dyn Control **8**(4) 377-385 (Oct 1998), 3T394
Feasible directions algorithm for optimal control problems with state and control constraints: Convergence analysis, SIAM J Control Optim **36**(6) 1999-2019 (Nov 1998), 4T382
Chattering elimination algorithm for sliding mode control of uncertain nonlinear systems, Mechatronics **8**(7) 765-775 (Oct 1998), 4A389
Computational complexity of Lyapunov stability analysis problems for a class of nonlinear systems, SIAM J Control Optim **36**(6) 2176-2193 (Nov 1998), 4A390
Calculation of recoverable sets for systems with input and state constraints, Optimal Control Appl Methods **19**(4) 247-269 (Jul-Aug 1998), 4T397
Development and flight testing of a parameter identification algorithm for reconfigurable control, J Guidance Control Dyn **21**(6) 948-956 (Nov-Dec 1998), 5A320
Gain-weighted eigenspace assignment, J Guidance Control Dyn **21**(6) 1009-1012 (Nov-Dec 1998), 5T356
Robust approximate pole assignment for second-order systems: Neural network computation, J Guidance Control Dyn **21**(6) 923-929 (Nov-Dec 1998), 5A357
Global convergence of a multidirectional algorithm for unconstrained optimal control problems, Numer Functional Anal Optimization **19**(9-10) 995-1023 (1998), 5A360
Design and evaluation of a 3D optimal ascent guidance algorithm, J Guidance Control Dyn **21**(6) 867-875 (Nov-Dec 1998), 5A365
Filtered reference and filtered error LMS algorithms for adaptive feedforward control, Mech Syst Signal Processing **12**(6) 769-781 (Nov 1998), 6T385
Self-tuning proportional, integral and derivative controller based on genetic algorithm least squares, J Syst Control Eng **212**(16) 437-448 (1998), 6A393
Inverse dynamics-based dynamic programming method for optimal control problems of linear systems, Optimal Control Appl Methods **19**(5) 363-370 (Sep-Oct 1998), 7A342
Optimal control model of neural networks for constrained optimization problems, Optimal Control Appl Methods **19**(5) 371-376 (Sep-Oct 1998), 7T343
Riccati-equation-based algorithm for continuous-time optimal control problems, Optimal Control Appl Methods **19**(5) 299-313 (Sep-Oct 1998), 7T344
Algorithm to solve the discrete HJI equation arising in the L_2 gain optimization problem, Int J Control **72**(1) 49-57 (Jan 1999), 7T361
Optimal linear regulator problems solved by the FEM, Comput Struct **70**(2) 141-148 (Jan 1999), 7A362
Algorithm for a minimum fuel control problem, Int J Control **72**(5) 435-448 (Mar 1999), 8T377
Creating time-optimal commands with practical constraints, J Guidance Control Dyn **22**(2) 241-250 (Mar-Apr 1999), 8A378
Direct and indirect optimization of linear time-invariant dynamic systems using transformations, Optimal Control Appl Methods **19**(6) 393-410 (Nov-Dec 1998), 8A380
Finite dimensional optimal control of Poiseuille flow, J Guidance Control Dyn **22**(2) 340-348 (Mar-Apr 1999), 8A382
Optimal control and filtering for nonstandard singularly perturbed linear systems, J Guidance Control Dyn **22**(2) 362-365 (Mar-Apr 1999), 8T385
State analysis and optimal control of linear time-varying systems via Haar wavelets, Optimal Control Appl Methods **19**(6) 423-433 (Nov-Dec 1998), 8A389
Design of an iterative learning controller for a class of linear dynamic systems with time delay, IEE Proc Control Theory Appl **145**(6) 507-512 (Nov 1998), 8A399
Computational methods for the evaluation of the electromagnetic losses in electrical machinery, Arch Comput Methods Eng **5**(4) 385-443 (1998), 8A408
Neural network α-th order inverse system method for the control of nonlinear continuous systems, IEE Proc Control Theory Appl **145**(6) 519-522 (Nov 1998), 8T409
Numerical solution of multiobjective control problems, Optimal Control Appl Methods **19**(6) 411-422 (Nov-Dec 1998), 8A410
Multipoint boundary-value solution of two-point boundary-value problems, J Optim Theory Appl **100**(2) 397-416 (Feb 1999), 9T422
Constraint qualification in multiobjective optimization problems: Semidifferentiable case, J Optim Theory Appl **100**(2) 417-433 (Feb 1999), 9T433
Special issue dedicated to Professor Yu-Chi Ho for his pioneering contributions to many areas of applied mathematics and engineering both as a researcher and an educator, J Optim Theory Appl **100**(3) 457-717 (Mar 1999), 9T444
Design of robust direct adaptive controllers for SISO systems: Time and frequency domain design conditions, Int J Control **72**(6) 517-530 (Apr 1999), 9A457
Algorithm for adaptive pole placement control of linear systems based on generalized sampled-data hold functions, J Franklin Inst **336**(3) 503-521 (Apr 1999), 9A463
Optimal reduction of linear systems, J Franklin Inst **336**(3) 523-532 (Apr 1999), 9A464
Papers dedicated to Jerry South of NASA Langley Research Center on the occasion of his retirement, Comput Fluids **28**(3-4) 389-739 (May-Jun 1999), 9A465
Numerical computation of optimal feed rates for a fed-batch fermentation model, J Optim Theory Appl **100**(1) 1-13 (Jan 1999), 9A478
Direct approach to the FE solution of elliptic optimal control problems, Numer Methods PDE **15**(3) 371-388 (May 1999), 10A441
Eigenstructure assignment by output feedback: The case of common open- and closed-loop characteristic vectors, IEE Proc Control Theory Appl **146**(1) 37-40 (Jan 1999), 10T442
Nonlinear decoupling method in the case of fast varying parameters, Comput Methods Appl Mech Eng **170**(1-2) 27-38 (Feb 1999), 10A443
Square-root method for continuous-time algebraic Riccati equations, J Austral Math Soc B **40**(4) 459-468 (Apr 1999), 10A444
Exact feedback linearization of a fifth-order model of synchronous generators, IEE Proc Control Theory Appl **146**(1) 53-57 (Jan 1999), 10T476
MCP insystems with continuous and discrete control inputs, Model Ident Control **19**(4) 175-184 (Oct 1998), 11T373
Computation of optimal control trajectories using Chebyshev polynomials: Parameterization, and quadratic programming, Optimal Control Appl Methods **20**(1) 21-42 (Jan-Feb 1999), 11A375
Software environment for gain scheduled controller design, Model Ident Control **19**(4) 185-206 (Oct 1998), 11A376
Solving control allocation problems using semidefinite programming, J Guidance Control Dyn **22**(3) 494-497 (May-Jun 1999), 11T377
Two-timescale-integration method for inverse simulation, J Guidance Control Dyn **22**(3) 395-401 (May-Jun 1999), 11A388
Convergence and applications of generalized simulated annealing, SIAM J Control Optim **37**(4) 1222-1250 (Apr 1999), 12T375
Dynamic programming method for constrained discrete-time optimal control, J Optim Theory Appl **101**(2) 259-283 (May 1999), 12T385
Feasible direction algorithm for optimal control problems with state and control constraints: Implementation, J Optim Theory Appl **101**(3) 623-649 (Jun 1999), 12T386
Wavelet approach to optimizing dynamic systems, IEE Proc Control Theory Appl **146**(2) 213-219 (Mar 1999), 12A396
Feedforward controller by modified series approximation, IEEE/ASME Trans Mechatronics **3**(3) 249-251 (Sep 1998), 12A409
Integrated approach to eigenstructure assignment by state feedback, IEE Proc Control Theory Appl **146**(2) 113-118 (Mar 1999), 12T412
Markov chain approximations for deterministic control problems with affine dynamics and quadratic cost in the control, SIAM J Numer Anal **36**(3) 667-695 (Mar-May 1999), 12A420
Worst-case evaluation method for dynamic systems, J Dyn Syst Meas Control **121**(2) 191-199 (Jun 1999), 12A503

204. SYSTEMS AND CONTROL APPLICATIONS

Genetic algorithm applied to the optimization of power plant operation process (Polish), Arch Energetics **27**(3-4) 19-36 (1998), 10T445

204B. Guidance, navigation, motion control

Guidance and Control 1998 (Am Astronaut Soc, Springfield VA, 1998) 1N6
Advances in electro-optic systems for targeting, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 1-19 (1998), 1T409
Comparison of four filtering options for a radar tracking problem, J Guidance Control Dyn **21**(4) 618-623 (Jul-Aug 1998), 1T410
Dynamics of axisymmetric rockets in free flight, J Dyn Syst Meas Control **120**(3) 410-414 (Sep 1998), 1A411

Interplanetary spacecraft controllers using thrusters, J Guidance Control Dyn **21**(4) 542-550 (Jul-Aug 1998), 1A412
Minimal-parameter attitude matrix estimation from vector observations, J Guidance Control Dyn **21**(4) 595-602 (Jul-Aug 1998), 1T413
Orbit determination and photogrammetry using Mars-94 tracking and images, J Guidance Control Dyn **21**(4) 535-541 (Jul-Aug 1998), 1T414
Quaternion parameterization and simple algorithm for global attitude estimation, J Guidance Control Dyn **21**(4) 669-671 (Jul-Aug 1998), 1T415
Thermally induced attitude dynamics of a spacecraft with a flexible appendage, J Guidance Control Dyn **21**(4) 581-587 (Jul-Aug 1998), 1A416
Digitally redesigned pulse-width modulation spacecraft control, J Guidance Control Dyn **21**(4) 529-534 (Jul-Aug 1998), 1A425
Touch points in optimal ascent trajectories with first-order state inequality constraints, J Guidance Control Dyn **21**(4) 603-610 (Jul-Aug 1998), 1T1241
Command limiting in reconfigurable flight control, J Guidance Control Dyn **21**(4) 639-646 (Jul-Aug 1998), 1A1242
Controlling aircraft with engine thrust only: Nonlinear challenges, Nonlinear Anal **35**(1) 21-35 (Jan 1999), 2T520
Robust multivariable control of rotorcraft in forward flight: Impact of bandwidth on fatigue life, J Am Helicopter Soc **43**(3) 195-201 (Jul 1998), 2A521
Adaptive asymptotic tracking of spacecraft attitude motion with inertia matrix identification, J Guidance Control Dyn **21**(5) 684-691 (Sep-Oct 1998), 3A402
Adaptive robust tracking for flexible spacecraft in presence of disturbances, J Optim Theory Appl **98**(3) 545-568 (Sep 1998), 3A403
Entry trajectory tracking law via feedback linearization, J Guidance Control Dyn **21**(5) 726-732 (Sep-Oct 1998), 3T404
Guidance algorithm design: A nonlinear inverse approach, J Guidance Control Dyn **21**(5) 742-746 (Sep-Oct 1998), 3T405
Recovery guidance satisfying input and state constraints: Rate saturating actuator example, J Guidance Control Dyn **21**(5) 733-741 (Sep-Oct 1998), 3T406
Torque shaping using trigonometric series expansion for slewing of flexible structures, J Guidance Control Dyn **21**(5) 698-703 (Sep-Oct 1998), 3A407
Motion planning of redundant robot manipulators using constrained optimization: A parallel approach, J Syst Control Eng **212**(I4) 281-292 (1998), 3T465
Development and flight testing of a parameter identification algorithm for reconfigurable control, J Guidance Control Dyn **21**(6) 948-956 (Nov-Dec 1998), 5A320
Robust control of linear parametrically varying systems with bounded rates, J Guidance Control Dyn **21**(6) 916-922 (Nov-Dec 1998), 5T358
Stabilizing controller design for linear parameter-varying systems using parameter feedback, J Guidance Control Dyn **21**(6) 891-898 (Nov-Dec 1998), 5A359
Algorithms for attitude determination using the global positioning system, J Guidance Control Dyn **21**(6) 846-852 (Nov-Dec 1998), 5T361
Attitude stability of DeBra-Delp satellites in circular orbit, J Guidance Control Dyn **21**(6) 965-970 (Nov-Dec 1998), 5T362
Control of the F-14 aircraft lateral-directional axis during powered approach, J Guidance Control Dyn **21**(6) 899-908 (Nov-Dec 1998), 5T363
Coplanar elliptical orbit transfer using aerocruise, J Guidance Control Dyn **21**(6) 971-974 (Nov-Dec 1998), 5T364
Design and evaluation of a 3D optimal ascent guidance algorithm, J Guidance Control Dyn **21**(6) 867-875 (Nov-Dec 1998), 5A365
Finite time stability approach to proportional navigation systems analysis, J Guidance Control Dyn **21**(6) 853-861 (Nov-Dec 1998), 5T366
Geometry and inverse optimality in global attitude stabilization, J Guidance Control Dyn **21**(6) 930-939 (Nov-Dec 1998), 5T367
Guidance strategy for solid propelled launchers, J Guidance Control Dyn **21**(6) 1006-1009 (Nov-Dec 1998), 5T368
High-g barrel roll maneuvers against proportional navigation from optimal control viewpoint, J Guidance Control Dyn **21**(6) 876-881 (Nov-Dec 1998), 5T369
Large-scale direct optimal control applied to a re-entry problem, J Guidance Control Dyn **21**(6) 996-1000 (Nov-Dec 1998), 5A370
Near-optimal entry trajectories for reusable launch vehicles, J Guidance Control Dyn **21**(6) 983-990 (Nov-Dec 1998), 5A371
Nonlinear H_∞ robust guidance law for homing missiles, J Guidance Control Dyn **21**(6) 882-890 (Nov-Dec 1998), 5A372
Optimization of ΔV earth-gravity-assist trajectories, J Guidance Control Dyn **21**(6) 991-995 (Nov-Dec 1998), 5T373
Potential benefits of terminal airspace traffic automation for arrivals, J Guidance Control Dyn **21**(6) 909-915 (Nov-Dec 1998), 5T374
Proportional navigation through predictive control, J Guidance Control Dyn **21**(6) 1004-1006 (Nov-Dec 1998), 5T375
Simple guidance scheme for low-thrust orbit transfers, J Guidance Control Dyn **21**(6) 1015-1017 (Nov-Dec 1998), 5T376
Terminal guidance algorithm for ramjet-powered missiles, J Guidance Control Dyn **21**(6) 862-866 (Nov-Dec 1998), 5T377
Time-optimal turn to a heading: An improved analytic solution, J Guidance Control Dyn **21**(6) 940-947 (Nov-Dec 1998), 5A378
Control of chaotic motion in a spinning spacecraft with a circumferential nutational damper, Nonlinear Dyn **17**(3) 269-284 (Nov 1998), 6A106
Control of a rotary inverted pendulum, Appl Math Lett **12**(2) 131-134 (Mar 1999), 6A398
Intelligent control on three-stage inverted pendulums, J Shanghai Univ **2**(4) 284-289 (Dec 1998), 6A399
Neural network based tracking control of mechanical systems, J Dyn Syst Meas Control **121**(1) 148-154 (Mar 1999), 6A400
Tangential-contouring controller for biaxial motion control, J Dyn Syst Meas Control **121**(1) 126-133 (Mar 1999), 6A401
Vehicle tracking algorithm using image processing (Chinese), J Huazhong Univ Sci Tech **26**(10) 87-89 (Oct 1998), 6A402
Adaptive random compensation using dither, J Guidance Control Dyn **22**(1) 51-57 (Jan-Feb 1999), 7T363
Autonomous maneuver tracking for self-piloted vehicles, J Guidance Control Dyn **22**(1) 58-67 (Jan-Feb 1999), 7A364
Bayesian pattern matching technique for target acquisition, J Guidance Control Dyn **22**(1) 68-77 (Jan-Feb 1999), 7T365
Design methods for rocket attitude control systems subject to actuator saturation, J Guidance Control Dyn **22**(1) 183-185 (Jan-Feb 1999), 7A366
Discrete-time optimal guidance, J Guidance Control Dyn **22**(1) 171-174 (Jan-Feb 1999), 7T367
Full envelope missile autopilot design using gain scheduled robust control, J Guidance Control Dyn **22**(1) 115-122 (Jan-Feb 1999), 7T368
Multi-layer hierarchical rule learning in reactive robot control using incremental decision trees, J Intelligent & Robotic Syst **24**(2) 99-124 (Feb 1999), 7A369
Optimal finite thrust orbit transfers with large numbers of burns, J Guidance Control Dyn **22**(1) 139-148 (Jan-Feb 1999), 7T370
Reconfigurable flight control systems for a tandem rotor helicopter, J Am Helicopter Soc **44**(1) 50-62 (Jan 1999), 7A371
Retrospective of traffic control schemes (Spanish), Sci Eng J (Ciencia Eng) **7**(2) 113-117 (Jul-Dec 1998), 7A372
Simple strategy for powered swingby, J Guidance Control Dyn **22**(1) 156-159 (Jan-Feb 1999), 7A373
Design of automatic landing systems using mixed H_2-H_∞ control, J Guidance Control Dyn **22**(1) 103-114 (Jan-Feb 1999), 7A378
Independent analysis of the space station node modal test data, J Guidance Control Dyn **22**(1) 22-27 (Jan-Feb 1999), 7T381
Synchronized formation rotation and attitude control of multiple free-flying spacecraft, J Guidance Control Dyn **22**(1) 28-35 (Jan-Feb 1999), 7A389
Optimization and coordination of multiagent systems using principled negotiation, J Guidance Control Dyn **22**(1) 43-50 (Jan-Feb 1999), 7T1130
Autonomous orbit determination for two spacecraft from relative position measurements, J Guidance Control Dyn **22**(2) 305-312 (Mar-Apr 1999), 8T411
Design calculations for fast plasma position control in Korea Superconducting Tokamak Advanced Research, Fusion Eng Des **45**(1) 101-115 (Mar 1999), 8A412
Direct adaptive control for gravity-turn descent, J Guidance Control Dyn **22**(2) 373-375 (Mar-Apr 1999), 8T413
Efficient and optimal attitude determination using recursive global positioning system signal operations, J Guidance Control Dyn **22**(2) 193-201 (Mar-Apr 1999), 8A414
Electric propulsion for remote sensing from low orbits, J Guidance Control Dyn **22**(2) 313-321 (Mar-Apr 1999), 8A415
Sensitivity of trajectory prediction in air traffic management, J Guidance Control Dyn **22**(2) 219-228 (Mar-Apr 1999), 8A416
Time optimum trajectory planning for robots based on B-spline path (Chinese), J Shanghai Jiaotong Univ **32**(12) 29-33 (Dec 1998), 8A417
Optimal strategies for free-flight air traffic conflict resolution, J Guidance Control Dyn **22**(2) 202-211 (Mar-Apr 1999), 8T1225
Robust control design with application to a seeker scan loop system, JSME Int J Ser C **40**(3) 462-468 (Sep 1997), 9A443
Adaptive terminal sliding mode tracking control for rigid robotic manipulators with uncertain dynamics, JSME Int J Ser C **40**(3) 493-502 (Sep 1997), 9A466
Control of a servohydraulic positioning system using state-space controller with grey forecasting, JSME Int J Ser C **41**(3) 391-397 (Sep 1998), 9A467
Silent duel with two kinds of weapon, Control and Cybernetics **28**(1) 115-120 (1999), 9T468
Target assignment problem for air raid, Control and Cybernetics **28**(1) 101-113 (1999), 9T469
Three-axis contouring control based on a trajectory coordinate basis, JSME Int J Ser C **41**(2) 242-247 (Jun 1998), 9A470
Hybrid artificial neural network inverse kinematic solution for accurate robot path control, J Syst Control Eng **213**(I1) 23-32 (1999), 9A514
Design and experiments on a free-floating planar robot for optimal chase and capture operations in space, Robotics Autonomous Syst **26**(4) 281-297 (Mar 1999), 9A531
Self-localization for an electric wheelchair, JSME Int J Ser C **40**(3) 433-438 (Sep 1997), 9A1575
Observability-enhanced proportional navigation guidance with bearings-only measurements, J Austral Math Soc B **40**(4) 497-512 (Apr 1999), 10A446
Optimization of enhanced active constrained layer treatment on helicopter flexbeams for aeromechanical stability augmentation, Smart Mat Struct **8**(2) 182-196 (Apr 1999), 10A983
Adaptive model inversion flight control for tilt-rotor aircraft, J Guidance Control Dyn **22**(3) 402-407 (May-Jun 1999), 11A378
Bayesian approach to guidance in the presence of glint, J Guidance Control Dyn **22**(3) 478-485 (May-Jun 1999), 11T379
Initial adjoint-variable guess technique and its application in optimal orbital transfer, J Guidance Control Dyn **22**(3) 490-492 (May-Jun 1999), 11T380
Minimum-time low-thrust rendezvous and transfer using epoch mean longitude formulation, J Guidance Control Dyn **22**(3) 421-432 (May-Jun 1999), 11T381
Multiple rigid-body reorientation using relative motion with constrained final system configuration, J Guidance Control Dyn **22**(3) 441-446 (May-Jun 1999), 11T382
Nonlinear digital scheme for attitude tracking, J Guidance Control Dyn **22**(3) 467-477 (May-Jun 1999), 11T383
Nonlinear sliding control of submarines in vertical plane movement (Chinese), J Huazhong Univ Sci Tech **27**(5) 94-96 (May 1999), 11A384
Oshmantial attitude and attitude-rate estimation using integrated-rate parameters, J Guidance Control Dyn **22**(3) 385-394 (May-Jun 1999), 11T385
Strapdown inertial navigation system - Part 2: Error models, J Theor Appl Mech **36**(4) 937-962 (1998), 11A386
Two-body optimization for deflecting earth-crossing asteroids, J Guidance Control Dyn **22**(3) 415-420 (May-Jun 1999), 11T387
Two-timescale-integration method for inverse simulation, J Guidance Control Dyn **22**(3) 395-401 (May-Jun 1999), 11A388
UAV program motion and control in prescribed mission, J Theor Appl Mech **36**(4) 963-978 (1998), 11A389
Determination of minimum-time maneuvers for a robotic manipulator using numerical optimization methods, Mech Struct Machines **27**(2) 185-201 (1999), 12A421
Modeling and control of a gravity gradient stabilized satellite, Model Ident Control **20**(1) 3-26 (Jan 1999), 12A422
Precise, fault-tolerant pointing using a Stewart platform, IEEE/ASME Trans Mechatronics **4**(1) 91-95 (Mar 1999), 12T423
Robotic interception of moving objects in industrial settings: Strategy development and experiment, IEEE/ASME Trans Mechatronics **3**(3) 225-239 (Sep 1998), 12A424
Structural formulation and self-oscillation prediction in multidimensional nonlinear closed-loop autonomous systems, Appl Math Comp Sci **9**(2) 327-346 (1999), 12T425
New method to improve obstacle detection accuracy using simultaneous firing of sonar ring sensors, Int J Japan Soc Precision Eng **33**(1) 49-54 (Mar 1999), 12A526
Object recognition and selective handling by a robot, J Intelligent & Robotic Syst **25**(2) 121-132 (Jun 1999), 12A527
Performance improvement of industrial robot trajectory tracking using adaptive-learning scheme, J Dyn Syst Meas Control **121**(2) 285-292 (Jun 1999), 12A528
Robust tracking control for constrained robots actuated by DC motors without velocity measurements, IEE Proc Control Theory Appl **146**(2) 147-156 (Mar 1999), 12A532
Position detection by cross-correlation with linear scan camera: 1D high-speed video camera, Int J Japan Soc Precision Eng **33**(1) 57-58 (Mar 1999), 12T534

204C. Control of structures and vehicles

Analytical criterion for chaotic dynamics in flexible satellites with nonlinear controller damping, J Guidance Control Dyn **21**(4) 558-565 (Jul-Aug 1998), 1A112
Vibration control of cable-stayed bridges - Part 2: Control analyses, Earthquake Eng Struct Dyn **27**(8) 825-843 (Aug 1998), 1A177
Adaptive algorithm for the tuning of two input shaping methods, Automatica **34**(6) 771-776 (Jun 1998), 1A360
Using bifurcation methods to aid nonlinear dynamic inversion control law design, J Guidance Control Dyn **21**(4) 632-638 (Jul-Aug 1998), 1A407
Dynamics of axisymmetric rockets in free flight, J Dyn Syst Meas Control **120**(3) 410-414 (Sep 1998), 1A411
Interplanetary spacecraft controllers using thrusters, J Guidance Control Dyn **21**(4) 542-550 (Jul-Aug 1998), 1A412
Analysis of dynamic vibration absorber for spacecraft with flexible appendages via traveling wave approach (Chinese), J Vib Eng **11**(2) 138-143 (Jun 1998), 1A417
Application of fuzzy adaptive filter in signal processing of vehicular revolution (Chinese), J Shanghai Jiaotong Univ **32**(5) 138-141 (May 1998), 1A418
Application of singular value decomposition method to digitally controlled large orbiting platforms, J Guidance Control Dyn **21**(4) 551-557 (Jul-Aug 1998), 1A419
Comparison and validation of dynamics simulation models for a structurally flexible manipulator, J Dyn Syst Meas Control **120**(3) 404-409 (Sep 1998), 1A420
Comparison of viscoelastic models in simulating the transient response of a slewing polymer arm, J Dyn Syst Meas Control **120**(3) 340-345 (Sep 1998), 1A421
Control of the mechanical systems by means of sliding modes and the solution to the problem of constraint reactions, Arch Mech **50**(1) 83-89 (1998), 1A422
Coordinated position control of multi-axis mechanical systems, J Dyn Syst Meas Control **120**(3) 389-393 (Sep 1998), 1A423
Decoupling control design with applications to flight, J Guidance Control Dyn **21**(4) 647-655 (Jul-Aug 1998), 1A424
Digitally redesigned pulse-width modulation spacecraft control, J Guidance Control Dyn **21**(4) 529-534 (Jul-Aug 1998), 1A425
Explicit solution of pole assignment in the sliding mode controller design of flexible manipulators, Int J Robotics Autom **13**(2) 60-64 (1998), 1A426
Frequency weighting for the H_∞ and H_2 control design of flexible structures, J Guidance Control Dyn **21**(4) 664-666 (Jul-Aug 1998), 1T427
Missile captive firing, model and control, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 31-43 (1998), 1A428
Optimal design of SDOF envelope systems for the responses of MDOF dynamic systems, Earthquake Eng Struct Dyn **27**(7) 661-672 (Jul 1998), 1A429
Planar dynamics of flexible manipulators with slewing deployable links, J Guidance Control Dyn **21**(4) 572-580 (Jul-Aug 1998), 1A430
Position control of flexible robot arms using mechanical waves, J Dyn Syst Meas Control **120**(3) 334-339 (Sep 1998), 1A431
Structural control of distributed parameter systems by output feedback, J Dyn Syst Meas Control **120**(3) 322-327 (Sep 1998), 1A432
Variable frequency PWM method for over-rated quick driving of robots (Japanese), J Japan Soc Precision Eng **64**(6) 845-850 (Jun 1998), 1A433
Vehicle steering intervention through differential braking, J Dyn Syst Meas Control **120**(3) 314-321 (Sep 1998), 1A434
Guidance and control algorithm for scent tracking micro-robotic vehicle swarms, J Dyn Syst Meas Control **120**(3) 353-359 (Sep 1998), 1A456
Adaptive controller of a master-slave system for transparent teleoperation, J Robotic Syst **15**(8) 465-475 (Aug 1998), 1A457
Measure of stability for mobile manipulators with application to heavy-duty hydraulic machines, J Dyn Syst Meas Control **120**(3) 360-370 (Sep 1998), 1A465
Sensor-based deflection modeling and compensation control of flexible robotic manipulator, Mech Machine Theory **33**(7) 909-924 (Oct 1998), 1A474
Piezoelectric motors-actuators and their applications, Smart Mat Struct **7**(3) 273-431 (Jun 1998), 1T730
Papers from a one day seminar - Smart materials and systems: Applications and recent developments, held at the IMechE Headquarters on April 10, 1997, J Syst Control Eng **212**(I3) 149-238 (1998), 1T973
Command limiting in reconfigurable flight control, J Guidance Control Dyn **21**(4) 639-646 (Jul-Aug 1998), 1A1242
Neal-Smith criteria-based H_∞-modeling technique for assessing pilot rating, J Guidance Control Dyn **21**(4) 656-661 (Jul-Aug 1998), 1T1244

Control of structural seismic response by self-recurrent neural network, Earthquake Eng Struct Dyn **27**(7) 641-648 (Jul 1998), 1A1446
Optimization of piezoceramic sensor-actuator placement for vibration control of laminated plates, AIAA J **36**(9) 1763-1765 (Sep 1998), 2T220
Special issue on learning in autonomous robots, Autonomous Robots **5**(3-4) 239-420 (Jul-Aug 1998), 2T473
LMI approach to H_∞-control of time-delay systems for the benchmark problem, Earthquake Eng Struct Dyn **27**(9) 957-976 (Sep 1998), 2A481
Robustness of a spectral assignment method applied to a flexible beam, Int J Control **70**(6) 859-872 (Aug 1998), 2A503
Active noise and vibration control, Appl Math Comp Sci **8**(2) 213-251 (1998), 2A522
Active roll-moment control strategy for narrow tilting commuter vehicles, Vehicle Syst Dyn **29**(5) 277-307 (May 1998), 2A523
Automobile passenger comfort assured through LQG-LQR active suspension, J Vib and Control **4**(5) 603-618 (Sep 1998), 2A524
Control and operation of tilting train services, Proc Inst Mech Eng F **212**(F1) 73-84 (1998), 2A525
Control system studies of an active anti-roll bar tilt system for railway vehicles, Proc Inst Mech Eng F **212**(F1) 43-60 (1998), 2A526
Controllability for mechanical systems with symmetries and constraints, Appl Math Comp Sci **7**(2) 305-331 (1997), 2A527
Experimental study of a prototype active anti-roll suspension system, Vehicle Syst Dyn **29**(5) 309-329 (May 1998), 2A528
Exponential trajectory tracking control in the workspace of a class of flexible robots, J Robotic Syst **15**(9) 487-504 (Sep 1998), 2A529
Stability of the hybrid-damped resolved-acceleration control, J Robotic Syst **15**(9) 505-510 (Sep 1998), 2A530
Time-scaling control of an underactuated manipulator, J Robotic Syst **15**(9) 525-536 (Sep 1998), 2A531
Vehicle velocity control using fuzzy self-tuning method, Vehicle Syst Dyn **29**(5) 331-338 (May 1998), 2A532
Wavelet approach to the active structural acoustic control, J Acoust Soc Am **104**(3-PT1) 1453-1465 (Sep 1998), 2A533
Motion control of adaptive space structures based on artificial potential method, J Spacecraft Rockets **35**(4) 496-501 (Jul-Aug 1998), 2A942
Adaptive Structures: Dynamics and Control (Wiley, New York, 1998) 3R13
Active control of vibrations and noise of double wall cylindrical shells, J Sound Vib **216**(5) 865-888 (Oct 1998), 3A169
Robust model reduction for a flexible spacecraft, J Guidance Control Dyn **21**(5) 809-812 (Sep-Oct 1998), 3T192
Vibration parameters identification in a spacecraft subjected to active vibration damping, Mechatronics **8**(6) 691-705 (Sep 1998), 3A197
Time-optimal spin-up maneuvers for flexible spacecraft, J Guidance Control Dyn **21**(5) 806-808 (Sep-Oct 1998), 3T277
Application of learning to high-speed robotic manipulators, J Syst Control Eng **212**(I4) 315-323 (1998), 3T371
Maximum principle for optimal boundary control of vibrating structures with applications to beams, Dyn Control **8**(4) 355-375 (Oct 1998), 3A395
Predictive controllers for feedback stabilization, J Guidance Control Dyn **21**(5) 747-753 (Sep-Oct 1998), 3A401
Adaptive asymptotic tracking of spacecraft attitude motion with inertia matrix identification, J Guidance Control Dyn **21**(5) 684-691 (Sep-Oct 1998), 3A402
Adaptive robust tracking for flexible spacecraft in presence of disturbances, J Optim Theory Appl **98**(3) 545-568 (Sep 1998), 3A403
Torque shaping using trigonometric series expansion for slewing of flexible structures, J Guidance Control Dyn **21**(5) 698-703 (Sep-Oct 1998), 3A407
Boundary controllability of a hybrid system consisting in two flexible beams connected by a point mass, SIAM J Control Optim **36**(5) 1576-1595 (Sep 1998), 3T408
Control of flexible structures using GPS: Methods and experimental results, J Guidance Control Dyn **21**(5) 673-683 (Sep-Oct 1998), 3A409
Design of automatic thruster assisted position mooring systems for ships, Model Ident Control **19**(2) 61-75 (Apr 1998), 3A410
Effective selection of piezoceramic actuators for an experimental flexible wing, J Guidance Control Dyn **21**(5) 704-709 (Sep-Oct 1998), 3T411
Experimental and theoretical results in output-trajectory redesign for flexible structures, J Dyn Syst Meas Control **120**(4) 456-461 (Dec 1998), 3A412
Feedback control of an omnidirectional autonomous platform for mobile service robots, J Intelligent & Robotic Syst **22**(3-4) 315-330 (Jul 1998), 3A413
Intelligent control for handling motion nonlinearity in a retrofitted machining table, IEE Proc Control Theory Appl **145**(4) 403-408 (Jul 1998), 3A414
Minimal state-space model realization of a nonlinear helicopter, IEE Proc Control Theory Appl **145**(4) 415-422 (Jul 1998), 3A415
Modeling and control of a 3D overhead crane, J Dyn Syst Meas Control **120**(4) 471-476 (Dec 1998), 3A416
Neural approach for the control of piezoelectric micromanipulation robots, J Intelligent & Robotic Syst **22**(3-4) 351-374 (Jul 1998), 3A417
New simple method of control of robotic manipulators with uncertain parameters, J Robotic Syst **15**(10) 551-558 (Oct 1998), 3A418
Proceedings of the 15th IAVSD Symposium held in Budapest, Hungary, August 25-29, 1997, Vehicle Syst Dyn **29**(S) 5-788 (1998), 3A419
Robust hybrid control of constrained robot manipulators via decomposed equations, J Intelligent & Robotic Syst **23**(1) 45-70 (Sep 1998), 3A420
Stability and control of a parametrically excited rotating beam, J Dyn Syst Meas Control **120**(4) 462-470 (Dec 1998), 3A421
Stability and control of a structurally nonlinear aeroelastic system, J Guidance Control Dyn **21**(5) 718-725 (Sep-Oct 1998), 3A422
Wave-based controller design for general flexible structures, J Sound Vib **216**(2) 269-279 (Sep 1998), 3A423
Autonomous intelligent cruise control with actuator delays, J Intelligent & Robotic Syst **23**(1) 27-43 (Sep 1998), 3A430
Multi-mode control of structures by using neural networks with Marquardt algorithms, J Intelligent Mat Syst Struct **8**(12) 1035-1043 (Dec 1997), 3A431
Spatially convolving wave sensors for structural control - Part II: Experimental verification using PVDF sensors, J Intelligent Mat Syst Struct **8**(12) 1059-1072 (Dec 1997), 3A433
Experimental study of formation alignment of multiple autonomous air-levitated vehicles with rule-based controls, J Robotic Syst **15**(10) 559-580 (Oct 1998), 3A456
Straight-line motion control for autonomous land vehicles using 2D image processing techniques, J Robotic Syst **15**(10) 537-549 (Oct 1998), 3A458
Control of robots with elastic joints interacting with dynamic environment, J Intelligent & Robotic Syst **23**(1) 87-100 (Sep 1998), 3A459
Artificial force reflection control for teleoperated mobile robots, Mechatronics **8**(6) 707-717 (Sep 1998), 3T464
Motion planning of redundant robot manipulators using constrained optimization: A parallel approach, J Syst Control Eng **212**(I4) 281-292 (1998), 3T465
Passivity-based interaction controller and observer for robot manipulators, J Dyn Syst Meas Control **120**(4) 516-520 (Dec 1998), 3A466
Position and force control of two CRS A460 robots manipulating a flexible sheet: Theory and experiment, J Dyn Syst Meas Control **120**(4) 529-533 (Dec 1998), 3A467
Robot trajectory control system design for multiple simultaneous specifications: Theory and experimentation, J Dyn Syst Meas Control **120**(4) 520-523 (Dec 1998), 3A468
Robotic motion controller using a self-organizing fuzzy logic algorithm with grey prediction, J Syst Control Eng **212**(I4) 293-304 (1998), 3A469
Robust position-force control of robot manipulators during constrained tasks, IEE Proc Control Theory Appl **145**(4) 427-433 (Jul 1998), 3A470
Tracking control of robot manipulators using a robust deterministic control law, J Dyn Syst Meas Control **120**(4) 537-541 (Dec 1998), 3A471
Hysteresis and vibration compensation for piezoactuator, J Guidance Control Dyn **21**(5) 710-717 (Sep-Oct 1998), 3T652
Analysis of non-selfadjoint control of thin elastic plates in the presence of conservative in-plane forces, Arch Appl Mech **68**(7-8) 501-512 (Sep 1998), 3A885
Optimization of the tractive performance of four-wheel-drive tractors: Theoretical analysis and experimental substantiation, Proc Inst Mech Eng D **212**(D4) 285-297 (1998), 3A985
Shape optimization of a vehicle speed control bump, Mech Struct Machines **26**(3) 319-342 (1998), 3A986
Bifurcation analysis of eigenstructure assignment control in a simple nonlinear aircraft model, J Guidance Control Dyn **21**(5) 792-798 (Sep-Oct 1998), 3T1181
Pilot-induced oscillations involving multiple nonlinearities, J Guidance Control Dyn **21**(5) 786-791 (Sep-Oct 1998), 3A1183
Computational vibration analysis of vehicle shimmy by a power-work method, Vehicle Syst Dyn **29**(6) 341-364 (Jun 1998), 4A187
Dynamic simulation of Taipei EMU train, Vehicle Syst Dyn **30**(2) 143-167 (Aug 1998), 4A188
Effect of system nonlinearities on locomotive bogie hunting stability, Vehicle Syst Dyn **29**(6) 365-384 (Jun 1998), 4A189
Front-rear interaction of a pitch-plane truck model, Vehicle Syst Dyn **30**(2) 117-141 (Aug 1998), 4A190
Dynamic parameter estimation of a MacPherson strut suspension, Vehicle Syst Dyn **30**(2) 169-184 (Aug 1998), 4A352
Identification of lateral dynamics and parameter estimation of heavy vehicles, Mech Syst Signal Processing **12**(5) 611-626 (Sep 1998), 4A355
Inversion-based sliding control of a flexible-link manipulator, Int J Control **71**(3) 477-490 (Oct 1998), 4A391
High speed railway: Collecting pantographs active control and overhead lines diagnostic solutions, Vehicle Syst Dyn **30**(1) 69-84 (Jul 1998), 4A400
Integrated adaptive-robust control of robot manipulators, J Robotic Syst **15**(12) 699-712 (Dec 1998), 4A401
Physically realizable feedback controls for a fully active preview suspension applied to a half-car model, Vehicle Syst Dyn **30**(1) 17-35 (Jul 1998), 4A402
Research on character of vehicle speed governor (Chinese), J Dalian Univ Tech **38**(5) 544-547 (Sep 1998), 4A403
Stabilization of a flexible beam with a tip mass, SIAM J Control Optim **36**(6) 1962-1986 (Nov 1998), 4A404
Validation of the harshness problem of automotive active suspensions, Vehicle Syst Dyn **30**(2) 89-115 (Aug 1998), 4A405
Control algorithms for stabilizing underactuated robots, J Robotic Syst **15**(12) 681-697 (Dec 1998), 4A420
Development of a fuzzy logic controller that drives a passive compliant manipulator, J Robotic Syst **15**(12) 671-680 (Dec 1998), 4A421
Scientific methods in mobile robotics, Robotics Autonomous Syst **24**(1-2) 5-83 (Aug 1998), 4A440
Control of the trajectory of a planar robot using recurrent hybrid networks, Int J Machine Tools Manuf **39**(3) 415-429 (Mar 1999), 4A453
Experimental evaluation of a partial-state feedback controller for SRM-RLED robot manipulators, Int J Robotics Autom **13**(3) 65-75 (1998), 4A454
Global minimum-time trajectory planning of mechanical manipulators using interval analysis, Int J Control **71**(4) 631-652 (Nov 1998), 4A455
Posture measure and control for robot compliance tasks, J Robotic Syst **15**(11) 623-640 (Nov 1998), 4A457
Robust adaptive control of a robotic manipulator including motor dynamics, J Robotic Syst **15**(11) 661-669 (Nov 1998), 4A458
Qualitative examination of dynamic stall from flight test data, J Am Helicopter Soc **43**(4) 279-295 (Oct 1998), 4A1253
Performance, Stability, Dynamics, and Control of Airplanes (AIAA, Reston, VA, 1998) 5R34
Nonlinear dynamic motion optimization and control of multibody systems, Mech Struct Machines **26**(4) 343-363 (1998), 5T79
Benchmark problems, Earthquake Eng Struct Dyn **27**(11) 1125-1397 (Nov 1998), 5A110
Optimal location and gains of feedback controllers at discrete locations, AIAA J **36**(11) 2109-2116 (Nov 1998), 5A112
Computer simulation of rail vehicle dynamics, Vehicle Syst Dyn **30**(3-4) 197-313 (Sep 1998), 5A159
Exact controllability and boundary stabilization of torsional vibrations of an internally damped flexible space structure, J Optim Theory Appl **99**(2) 423-442 (Nov 1998), 5T316
Gain-weighted eigenspace assignment, J Guidance Control Dyn **21**(6) 1009-1012 (Nov-Dec 1998), 5T356
Control of the F-14 aircraft lateral-directional axis during powered approach, J Guidance Control Dyn **21**(6) 899-908 (Nov-Dec 1998), 5T363
Large-scale direct optimal control applied to a re-entry problem, J Guidance Control Dyn **21**(6) 996-1000 (Nov-Dec 1998), 5A370
Near-optimal entry trajectories for reusable launch vehicles, J Guidance Control Dyn **21**(6) 983-990 (Nov-Dec 1998), 5A371
Nonlinear H_∞ robust guidance law for homing missiles, J Guidance Control Dyn **21**(6) 882-890 (Nov-Dec 1998), 5A372
Proportional navigation through predictive control, J Guidance Control Dyn **21**(6) 1004-1006 (Nov-Dec 1998), 5T375
Analyses of vision-based lateral control for automated highway system, Vehicle Syst Dyn **30**(5) 345-373 (Nov 1998), 5A379
Applied active control for a nonlinear aeroelastic structure, J Guidance Control Dyn **21**(6) 838-845 (Nov-Dec 1998), 5A380
Command shaping in tracking control of a two-link flexible robot, J Guidance Control Dyn **21**(6) 1012-1015 (Nov-Dec 1998), 5T381
Experimental evaluation of the torque-shaping method for slew maneuver of flexible space structures, J Guidance Control Dyn **21**(6) 817-822 (Nov-Dec 1998), 5A382
Intelligent cruise control system design based on a traffic flow specification, Vehicle Syst Dyn **30**(5) 319-344 (Nov 1998), 5A383
Output feedback variable structure adaptive control of an aeroelastic system, J Guidance Control Dyn **21**(6) 830-837 (Nov-Dec 1998), 5A384
Passive control of displaced solar sail orbits, J Guidance Control Dyn **21**(6) 975-982 (Nov-Dec 1998), 5T385
Simplified framework for string stability analysis of automated vehicles, Vehicle Syst Dyn **30**(5) 375-405 (Nov 1998), 5A386
Synthesis of real-time robust flexible structure controllers, J Guidance Control Dyn **21**(6) 1001-1004 (Nov-Dec 1998), 5T387
Distributed flight control and propulsion control implementation issues and lessons learned, J Eng Gas Turbines Power **121**(1) 96-101 (Jan 1999), 5A1112
Wavelet-processed flight data for robust aeroservoelastic stability margins, J Guidance Control Dyn **21**(6) 823-829 (Nov-Dec 1998), 5T1113
Assessing aircraft susceptibility to nonlinear aircraft-pilot coupling and pilot-induced oscillations, J Guidance Control Dyn **21**(6) 957-964 (Nov-Dec 1998), 5A1571
Dynamic Systems and Control Division - 1998 (ASME, New York, 1998) 6N12
Vehicle dynamics and control synthesis for four-wheel steering passenger cars, Proc Inst Mech Eng D **212**(D6) 449-461 (1998), 6A96
Control of chaotic motion in a spinning spacecraft with a circumferential nutational damper, Nonlinear Dyn **17**(3) 269-284 (Nov 1998), 6A106
Slow effects of fast harmonic excitation for elastic structures, Nonlinear Dyn **17**(3) 227-246 (Nov 1998), 6A112
Automated design technique for nonlinear structures and controllers, J Vib and Control **5**(1) 123-150 (Jan 1999), 6A121
Fuzzy logic control of bridge structures using intelligent semi-active seismic isolation systems, Earthquake Eng Struct Dyn **28**(1) 37-60 (Jan 1999), 6A127
Optimal control of laminated plate with piezoelectric sensor and actuator layers, AIAA J **36**(12) 2204-2208 (Dec 1998), 6A133
Active control of the structural and acoustic responses of a fluid-loaded plate - Part II: Feedforward control, J Low Frequency Noise Vib **17**(2) 99-115 (1998), 6A309
Real-time modal parameter estimation using subspace methods: Applications, Mech Syst Signal Processing **12**(6) 809-823 (Nov 1998), 6T335
Neural, fuzzy and genetic techniques in robotics and control, J Intelligent & Robotic Syst **23**(2-4) 105-405 (Oct-Dec 1998), 6T355
Feedback control of planar linkages using a linearizing filter: Theory and experiments, Multibody Syst Dyn **2**(3) 253-276 (Sep 1998), 6A403
Instantaneous optimal control of structures by use of wavelet decomposition (Japanese), Proc JSCE **605**(I-45) 231-239 (Oct 1998), 6A404
Lane geometry perception and the characterization of its associated uncertainty, J Dyn Syst Meas Control **121**(1) 1-9 (Mar 1999), 6A405
Modeling, identification, and real-time control to bucket hydraulic system for a wheel type loader earth moving equipment, Mechatronics **8**(8) 863-885 (Dec 1998), 6A406
Nonlinear tracking control of trailer systems using the Lyapunov direct method, J Robotic Syst **16**(1) 1-8 (Jan 1999), 6A407
Optimal control of stretching process of solar arrays on spacecraft using wavelet expansion method, Acta Mech Solida Sinica **11**(4) 351-358 (1998), 6A408
Simulation of fuzzy torque control system for electric vehicles (Chinese), J Tsinghua Univ Sci Tech **38**(8) 96-99 (Aug 1998), 6A409
Verification of a wheeled mobile robot dynamic model and control ramifications, J Dyn Syst Meas Control **121**(1) 58-63 (Mar 1999), 6A410
Vibration and position tracking control of piezoceramic-based smart structures via QFT, J Dyn Syst Meas Control **121**(1) 27-33 (Mar 1999), 6A411
Vibration control of a flexible structure using ER dampers, J Dyn Syst Meas Control **121**(1) 134-138 (Mar 1999), 6A412
Nonlinear dynamic strain analysis on rotor blade structures with embedded piezoceramic sensors for active vibration control, Mechatronics **8**(8) 805-820 (Dec 1998), 6A429
Optimal control of adaptive building structures under blast loading, Mechatronics **8**(8) 821-844 (Dec 1998), 6A431
ARK project: Autonomous mobile robots for known industrial environments, Robotics Autonomous Syst **25**(1-2) 83-104 (Oct 1998), 6T457
Autonomous mobile robots, Robotics Autonomous Syst **25**(3-4) 137-262 (Nov 1998), 6A458
Evolution of a world model for a miniature robot using genetic programming, Robotics Autonomous Syst **25**(1-2) 105-116 (Oct 1998), 6T460
Frequency domain modeling of aided GPS for vehicle navigation systems, Robotics Autonomous Syst **25**(1-2) 73-82 (Oct 1998), 6T462
Group shape generating model movement model for cooperative robots system, Mechatronics **8**(8) 905-925 (Dec 1998), 6T463
Application of nonlinear H_∞ control to the Tetrabot robot manipulator, J Syst Control Eng **212**(I6) 459-465 (1998), 6T467

Robust landmark-based system for vehicle location using low-bandwidth vision, Robotics Autonomous Syst **25**(1-2) 19-32 (Oct 1998), 6T469
Tracking control of robot manipulator using sliding mode controller with performance robustness, J Dyn Syst Meas Control **121**(1) 64-70 (Mar 1999), 6A471
Trajectory tracking control of robot manipulators using a neural-network-based torque compensator, J Syst Control Eng **212**(I5) 361-372 (1998), 6A472
Additional vehicle's wheel rotation during crossing road unevenness, Heavy Vehicle Syst **5**(3-4) 323-340 (1998), 7T181
Assessment of the ride quality of a truckfull trailer combination, Heavy Vehicle Syst **5**(3-4) 208-235 (1998), 7A182
Basic analytical study of pantograph-catenary system dynamics, Vehicle Syst Dyn **30**(6) 443-456 (Dec 1998), 7A183
Dynamic rollover threshold of articulated freight vehicles, Heavy Vehicle Syst **5**(3-4) 300-322 (1998), 7A184
Investigation of the dynamic performance of the M939 truck-M198 medium towed howitzer combination, Heavy Vehicle Syst **5**(3-4) 341-358 (1998), 7T186
Nonlinear yaw-roll-pitch model of the dynamics of log hauling trucks, Heavy Vehicle Syst **5**(3-4) 181-207 (1998), 7A187
Ride behavior of trucks transporting liquids, Heavy Vehicle Syst **5**(3-4) 261-276 (1998), 7A188
Rotational resistance behavior and field testing of two-axle bogie design, Vehicle Syst Dyn **31**(1) 47-63 (Jan 1999), 7A189
State observer design for an adaptive vehicle suspension, Vehicle Syst Dyn **30**(6) 457-471 (Dec 1998), 7A191
Truck cab suspension design: Optimization and vibration control, Heavy Vehicle Syst **5**(3-4) 236-260 (1998), 7A192
New design method for pulse-width modulation control system via digital redesign, J Guidance Control Dyn **22**(1) 123-128 (Jan-Feb 1999), 7T357
Full envelope missile autopilot design using gain scheduled robust control, J Guidance Control Dyn **22**(1) 115-122 (Jan-Feb 1999), 7T368
Active control of a truck full-trailer's rearward amplification, Heavy Vehicle Syst **5**(3-4) 277-299 (1998), 7A374
Application of nonlinear optimization methods to input shaping of the hoist drive of an off-shore crane, Nonlinear Dyn **17**(4) 369-386 (Dec 1998), 7A375
Automatic vehicle following with integrated throttle and brake control, Int J Control **72**(1) 75-83 (Jan 1999), 7A376
Controller design for vibration suppression of slewing flexible structures, Comput Struct **70**(1) 119-128 (Jan 1999), 7A377
Design of automatic landing systems using mixed H_2-H_∞ control, J Guidance Control Dyn **22**(1) 103-114 (Jan-Feb 1999), 7A378
Evolutionary design of controlled structures, J Aircraft **36**(1) 209-217 (Jan-Feb 1999), 7A379
Expected residual vibration of traditional and hybrid input shaping designs, J Guidance Control Dyn **22**(1) 162-165 (Jan-Feb 1999), 7T380
Independent analysis of the space station node modal test data, J Guidance Control Dyn **22**(1) 22-27 (Jan-Feb 1999), 7T381
Mixture of automatically- and manually-controlled vehicles in intelligent transport systems, J Intelligent & Robotic Syst **24**(2) 175-205 (Feb 1999), 7A382
Modeling and control of a flexible structure incorporating inertial slip-stick actuators, J Guidance Control Dyn **22**(1) 36-42 (Jan-Feb 1999), 7A383
Multi-loop feedback control of offshore steel jacket platforms, Comput Struct **70**(2) 185-202 (Jan 1999), 7A384
New method of reduced order feedback control using genetic algorithms, Earthquake Eng Struct Dyn **28**(2) 193-212 (Feb 1999), 7A385
Optimal control of a flexible manipulator and controller order reduction, Optimal Control Appl Methods **19**(5) 331-343 (Sep-Oct 1998), 7A386
Optimal control of vortex shedding using low-order models - Part I: Open-loop model development, Int J Numer Methods Eng **44**(7) 945-972 (Mar 1999), 7A387
Optimal control of vortex shedding using low-order models - Part II: Model-based control, Int J Numer Methods Eng **44**(7) 973-990 (Mar 1999), 7A388
Synchronized formation rotation and attitude control of multiple free-flying spacecraft, J Guidance Control Dyn **22**(1) 28-35 (Jan-Feb 1999), 7A389
Uncertainty modeling for multivariable-control robustness analysis of elastic high-speed vehicles, J Guidance Control Dyn **22**(1) 87-95 (Jan-Feb 1999), 7T390
Frequency reshaped quadratic control of a low-cost human-level performance belt-driven robot, Mechatronics **9**(1) 95-110 (Feb 1999), 7T395
Robust distributed controller of a single-link SCARA-Cartesian smart materials robot, Mechatronics **9**(1) 65-93 (Feb 1999), 7A397
Estimation of the nonlinear suspension tire cornering forces from experimental road test data, Vehicle Syst Dyn **31**(1) 23-34 (Jan 1999), 7A873
Multi-spoke, three plane tire model for simulation of transient behavior, Vehicle Syst Dyn **31**(1) 35-45 (Jan 1999), 7A875
Gain-scheduled control using fuzzy logic and its application to flight control, J Guidance Control Dyn **22**(1) 175-178 (Jan-Feb 1999), 7T1131
New method for reduced-order feedback control using genetic algorithms, Earthquake Eng Struct Dyn **28**(3) 235-254 (Mar 1999), 8A115
Simultaneous optimization of structure and control for vibration suppression, J Vib Acoust **121**(2) 237-243 (Apr 1999), 8A119
On-orbit closed-loop control results for the Middeck Active Control Experiment, J Guidance Control Dyn **22**(2) 267-277 (Mar-Apr 1999), 8T186
Direct and indirect optimization of linear time-invariant dynamic systems using transformations, Optimal Control Appl Methods **19**(6) 393-410 (Nov-Dec 1998), 8A380
Comparison of μ- and H_2-synthesis controllers on an experimental typical section, J Guidance Control Dyn **22**(2) 278-285 (Mar-Apr 1999), 8T398
Sensitivity of trajectory prediction in air traffic management, J Guidance Control Dyn **22**(2) 219-228 (Mar-Apr 1999), 8A416
Adaptive control of electrically driven space robots based on virtual decomposition, J Guidance Control Dyn **22**(2) 329-339 (Mar-Apr 1999), 8T418
Adaptive control of space structures via recurrent neural networks, Dyn Control **9**(1) 5-20 (Jan 1999), 8A419
Adaptive H_∞ neutral network tracking controller for electrically driven manipulators, IEE Proc Control Theory Appl **145**(6) 594-602 (Nov 1998), 8A420
Control for tractor-semitrailer vehicle systems: A Lyapunov minimax approach, Dyn Control **9**(1) 21-37 (Jan 1999), 8A421
Control of a 1-dof juggling robot, Dyn Control **9**(1) 67-90 (Jan 1999), 8A422
Development of mathematical model of a plate for active vibration suppression, J Vib and Control **5**(2) 175-194 (Mar 1999), 8A423
Further results on time-optimal control of two-link rigid manipulators, Int J Robotics Autom **13**(4) 113-124 (1998), 8A424
Neural network force control for industrial robots, J Intelligent & Robotic Syst **24**(3) 253-268 (Mar 1999), 8A425
Nonminimal state space approach to multivariable ramp metering control of motorway bottlenecks, IEE Proc Control Theory Appl **145**(6) 568-574 (Nov 1998), 8T426
Parallel robot control using speculative computation, Int J Robotics Autom **13**(4) 101-112 (1998), 8A427
Robust adaptive terminal sliding mode control for rigid robotic manipulators, J Intelligent & Robotic Syst **24**(1) 23-41 (Jan 1999), 8A428
Robust integrated flight and propulsion controller for the Harrier aircraft, J Guidance Control Dyn **22**(2) 286-290 (Mar-Apr 1999), 8A429
Stochastic optimal preview control of an active vehicle suspension, J Sound Vib **220**(2) 313-330 (Feb 1999), 8A430
Vibration reduction of flexible manipulators using torque wheels, Mech Struct Machines **27**(1) 1-22 (1999), 8A431
Behavior-based artificial intelligence in miniature mobile robot, Mechatronics **9**(2) 185-206 (Mar 1999), 8A442
Improved operation of micromechanical comb-drive actuators through the use of a new angled comb finger design, J Intelligent Mat Syst Struct **9**(4) 283-290 (Apr 1998), 8A444
Status monitoring in flexible manipulators, IEE Proc Control Theory Appl **145**(6) 537-550 (Nov 1998), 8A453
Special Issue: Field and Service Robotics, Robotics Autonomous Syst **26**(2-3) 81-232 (Feb 1999), 8A461
Coordinated motion and force control of multi-limbed robotic systems, Autonomous Robots **6**(1) 7-20 (Jan 1999), 8A463
Adaptive neural network based controller for robots, Mechatronics **9**(2) 147-162 (Mar 1999), 8A471
Feedback control using shape memory alloy actuators, J Intelligent Mat Syst Struct **9**(4) 242-250 (Apr 1998), 8A849
Study on an overhead robot arm to assist walking of the elderly - 1st report: Control with force sensors (Japanese), J Japan Soc Precision Eng **65**(1) 116-120 (Jan 1999), 8A1621
Comparative study of methods for optimizing sensor and actuator locations in active control applications, J Sound Vib **221**(4) 651-679 (Apr 1999), 9A118
Vibration control of mobile robot vehicle by dynamic vibration absorber, JSME Int J Ser C **42**(1) 61-70 (Mar 1999), 9A124
Selection of sensor locations for active vibration control of helicopter fuselages, J Aircraft **36**(2) 434-442 (Mar-Apr 1999), 9A147
Optimal design of wind-induced vibration control of tall buildings and high-rise structures, Wind Struct **2**(1) 69-83 (Mar 1999), 9A182
Low-order dynamic model for flexible hydraulic cranes, J Syst Control Eng **213**(I1) 11-22 (1999), 9A186
Robust adaptive control of an active vehicle suspension system, Proc Inst Mech Eng D **213**(D1) 1-17 (1999), 9A191
Control design of self-sensing magnetic bearings for rigid rotors, Machine Dyn Prob **22** 7-18 (1998), 9T471
Hydraulic actuator control with open-center electro-hydraulic valve using a cerebellar model articulation controller neural network algorithm, J Syst Control Eng **213**(I1) 33-48 (1999), 9A472
Performance improvement of robot manipulator control using an on-line neural network compensator, J Syst Control Eng **213**(I1) 49-60 (1999), 9A473
Robust backstepping and neural network control of a low-quality nonholonomic mobile robot, Int J Machine Tools Manuf **39**(7) 1117-1134 (Jul 1999), 9A474
Robust identification and control design for truck cab model device, JSME Int J Ser C **41**(2) 171-177 (Jun 1998), 9A475
Semiactive control of rotating composite shells with SMA fibers, Machine Dyn Prob **20** 287-301 (1998), 9A476
Vehicle longitudinal control using throttles and brakes, Robotics Autonomous Syst **26**(4) 241-253 (Mar 1999), 9T477
Hybrid artificial neural network inverse kinematic solution for accurate robot path control, J Syst Control Eng **213**(I1) 23-32 (1999), 9A514
Design of time-optimal control for two-wheel driven carts catching a target trajectory, Mech Machine Theory **34**(6) 877-888 (Aug 1999), 9A522
Simple linear stabilizing controller for a RLED robot with uncertain parameters and some related applications, Int J Control **72**(6) 546-559 (Apr 1999), 9T526
Design and experiments on a free-floating planar robot for optimal chase and capture operations in space, Robotics Autonomous Syst **26**(4) 281-297 (Mar 1999), 9A531
Hybrid modeling, simulation and torque control of a marine propulsion system, J Syst Control Eng **213**(I1) 1-10 (1999), 9A1258
Optimal placement of piezoelectric sensors and actuators for vibration control of a composite plate using genetic algorithms, Smart Mat Struct **8**(2) 257-267 (Apr 1999), 10A151
Active vibration control and suppression for integrated structures, Appl Math Mech **20**(2) 171-178 (Feb 1999), 10A241
Adaptive feedback linearization for the control of a typical wing section with structural nonlinearity, Nonlinear Dyn **18**(3) 289-301 (Mar 1999), 10T447
Application of piezoelectric elements to semi-adaptive dynamic eliminator of torsional vibration, J Theor Appl Mech **37**(2) 319-334 (1999), 10A448
Design and development of electronically tunable microstrip antennas, Smart Mat Struct **8**(2) 238-242 (Apr 1999), 10A449
Implementation of N-step-ahead neurocontrol on a 3-axes heavy duty hydraulic manipulator, Mechatronics **9**(3) 235-270 (Apr 1999), 10A450
Modeling offshore pipelaying operations using simulation, Int J Offshore Polar Eng **8**(3) 213-221 (Sep 1998), 10A451
Stabilization of beam parametric vibrations by means of distributed piezoelectric elements, J Theor Appl Mech **37**(2) 240-254 (1999), 10A452
Static adjustment of beam deflections by means of induced strain actuators, Smart Mat Struct **8**(2) 278-283 (Apr 1999), 10A453
Theory and method of optimal control solution to dynamic system parameters identification (I)-Fundamental concept and deterministic system parameters identificiaton, Appl Math Mech **20**(2) 135-142 (Feb 1999), 10A454
H_∞ control of a flexible gantry robot arm using smart actuators, Mechatronics **9**(3) 271-286 (Apr 1999), 10A466
Hybrid fuzzy P + ID control manipulators under uncertainty, Mechatronics **9**(3) 301-315 (Apr 1999), 10A488
Model testing, Mech Syst Signal Processing **13**(2) 183-366 (Mar 1999), 10A1006
Control of a parametrically excited flexible beam undergoing rotation and impacts, Multibody Syst Dyn **3**(1) 47-63 (Feb 1999), 11A134
Passive control of overhead cranes, J Vib and Control **5**(3) 443-459 (May 1999), 11A182
Solution method for boundary control of 1D multispan vibrating systems, J Vib and Control **5**(3) 373-399 (May 1999), 11A186
Hierarchical control of hydraulic active suspensions of a fast all-terrain military vehicle, J Sound Vib **222**(5) 723-752 (May 1999), 11A218
Spacecraft vibration reduction using pulse-width pulse-frequency modulated input shaper, J Guidance Control Dyn **22**(3) 433-440 (May-Jun 1999), 11A219
Adaptive model inversion flight control for tilt-rotor aircraft, J Guidance Control Dyn **22**(3) 402-407 (May-Jun 1999), 11A378
Multiple rigid-body reorientation using relative motion with constrained final system configuration, J Guidance Control Dyn **22**(3) 441-446 (May-Jun 1999), 11T382
Nonlinear digital scheme for attitude tracking, J Guidance Control Dyn **22**(3) 467-477 (May-Jun 1999), 11T383
Identifying helicopter control gains using desired output histories, J Guidance Control Dyn **22**(3) 492-494 (May-Jun 1999), 11T390
Robust adaptive control of store release event for wings with external stores, J Guidance Control Dyn **22**(3) 408-414 (May-Jun 1999), 11A391
Vibration confinement in a generic launch vehicle, J Guidance Control Dyn **22**(3) 500-502 (May-Jun 1999), 11T392
Vibration nodes, and the cancellation of poles and zeros by unit-rank modifications to structures, J Sound Vib **222**(5) 833-851 (May 1999), 11A393
Visual servoing control of autonomous robot calibration and navigation, J Robotic Syst **16**(6) 313-328 (Jun 1999), 11A394
DC thruster controller implementation with integral anti-wind up compensator for underwater ROV, J Intelligent & Robotic Syst **25**(1) 79-94 (May 1999), 11A411
Adaptive control of free-flying space robot with position-attitude control system, J Guidance Control Dyn **22**(3) 488-490 (May-Jun 1999), 11T420
Chattering elimination in the hybrid control of constrained manipulators via first-second order sliding mode control, Dyn Control **9**(2) 99-124 (Apr 1999), 11A421
Special issue International Journal of Vehicle Design, Int J Vehicle Des **21**(1) 1-121 (1999), 11A436
Sliding mode control of an impacting elastic element using inverse model, J Low Frequency Noise Vib **18**(1) 21-38 (1999), 12A140
Dynamic effects of conventional freight car running over a dipped-joint, Vehicle Syst Dyn **31**(2) 95-111 (Feb 1999), 12A168
Optimal design of a vibration isolation mount using physical programming, J Dyn Syst Meas Control **121**(2) 171-178 (Jun 1999), 12A175
Joint impedance pneumatic control for multilink systems, J Dyn Syst Meas Control **121**(2) 293-297 (Jun 1999), 12A413
Neurofuzzy-model-following control of MIMO nonlinear systems, IEE Proc Control Theory Appl **146**(2) 157-164 (Mar 1999), 12A415
On-off control with specified fuel usage, J Dyn Syst Meas Control **121**(2) 206-212 (Jun 1999), 12A416
Determination of minimum-time maneuvers for a robotic manipulator using numerical optimization methods, Mech Struct Machines **27**(2) 185-201 (1999), 12A421
Modeling and control of a gravity gradient stabilized satellite, Model Ident Control **20**(1) 3-26 (Jan 1999), 12A422
Robotic interception of moving objects in industrial settings: Strategy development and experiment, IEEE/ASME Trans Mechatronics **3**(3) 225-239 (Sep 1998), 12A424
Approach to control input shaping with application to coordinate measuring machines, J Dyn Syst Meas Control **121**(2) 242-247 (Jun 1999), 12A426
General method for the evaluation of vehicle maneuverability with special emphasis on motorcycles, Vehicle Syst Dyn **31**(2) 113-135 (Feb 1999), 12A427
Minimum time trajectory optimization and learning, J Dyn Syst Meas Control **121**(2) 213-217 (Jun 1999), 12A428
Motion control in an electric vehicle with four independently driven in-wheel motors, IEEE/ASME Trans Mechatronics **4**(1) 9-16 (Mar 1999), 12A429
Multi-objective control synthesis: An application to 4WS passenger vehicles, Mechatronics **9**(4) 363-390 (Jun 1999), 12A430
Nonlinear open-close loop active control of articulated leg platform, Int J Offshore Polar Eng **9**(2) 141-148 (Jun 1999), 12A431
Semi-active suspension control (Chinese), J Shanghai Jiaotong Univ **33**(3) 350-353 (Mar 1999), 12A432
Simulation and identification of helicopter rotor dynamics using a general-purpose multibody code, J Franklin Inst **336**(5) 783-797 (Jul 1999), 12A433
Control-structure interaction in disk drives using model superposition and FE analysis, J Info Storage Processing Syst **1**(1) 87-94 (Jan 1999), 12A447
Perception-based intelligent robots, Autonomous Robots **6**(2) 113-238 (Apr 1999), 12T457
Dynamic contact sensing by flexible beam, IEEE/ASME Trans Mechatronics **3**(4) 254-264 (Dec 1998), 12A466
Dynamics of suspension-slider-air-bearing systems: Experimental study, IEEE/ASME Trans Mechatronics **3**(3) 210-217 (Sep 1998), 12A467
Lateral position sensing system for automated vehicle following, IEEE/ASME Trans Mechatronics **3**(3) 218-224 (Sep 1998), 12A469
Mechanical construction and computer architecture of the four-legged walking machine BISAM, IEEE/ASME Trans Mechatronics **4**(1) 32-38 (Mar 1999), 12A470
PC-based sliding-mode control applied to parallel-type double inverted pendulum system, Mechatronics **9**(5) 553-564 (Aug 1999), 12A479

Throttle actuator control system for vehicle traction control, Mechatronics **9**(5) 477-495 (Aug 1999), 12A483

Two-dof control with robust feedback control for hard disk servo systems, IEEE/ASME Trans Mechatronics **4**(1) 17-24 (Mar 1999), 12A485

Vibration acceleration control of an inverter-fed electrodynamic shaker, IEEE/ASME Trans Mechatronics **4**(1) 60-70 (Mar 1999), 12T486

Worst-case evaluation method for dynamic systems, J Dyn Syst Meas Control **121**(2) 191-199 (Jun 1999), 12A503

Kinematics and the full minimal dynamic model of a 6-dof parallel robot manipulator, Nonlinear Dyn **18**(4) 339-356 (Apr 1999), 12T507

Flexibility maps: A formalization of navigation behaviors, Robotics Autonomous Syst **27**(3) 151-169 (May 1999), 12T514

Social potential fields: A distributed behavioral control for autonomous robots, Robotics Autonomous Syst **27**(3) 171-194 (May 1999), 12T518

Performance improvement of industrial robot trajectory tracking using adaptive-learning scheme, J Dyn Syst Meas Control **121**(2) 285-292 (Jun 1999), 12A528

Robotic force control using virtual trajectory generation, J Dyn Syst Meas Control **121**(2) 320-322 (Jun 1999), 12A530

Robust hybrid position-force control of redundant robots, Robotics Autonomous Syst **27**(3) 111-127 (May 1999), 12A531

Robust tracking control for constrained robots actuated by DC motors without velocity measurements, IEE Proc Control Theory Appl **146**(2) 147-156 (Mar 1999), 12A532

Sliding mode control of a hydraulic industrial robot, J Dyn Syst Meas Control **121**(2) 312-318 (Jun 1999), 12A533

Force oscillations in contact motion of industrial robots: An experimental investigation, IEEE/ASME Trans Mechatronics **4**(1) 86-91 (Mar 1999), 12A537

Pragmatic tire model for short wavelength side slip variations, Vehicle Syst Dyn **31**(2) 65-94 (Feb 1999), 12A951

Comparative structural analysis of 2dof semi-direct-drive linkages for robot arms, IEEE/ASME Trans Mechatronics **4**(1) 82-86 (Mar 1999), 12A1008

Flight control law design, Aerospace Sci Tech **3**(3) 111-189 (Apr 1999), 12T1243

204D. Process control

Identification and control strategy for a liquid composite molding process, Appl Math Model **22**(4-5) 207-218 (Apr-May 1998), 1A435

Reduced model control of a plasma deposition process, J Dyn Syst Meas Control **120**(3) 398-401 (Sep 1998), 1A436

Robust nonlinear control of continuous stirred tank reactors, J Shanghai Univ **2**(2) 135-138 (Jun 1998), 1A437

Adaptive control of the WEDM process using the fuzzy control strategy, J Manuf Syst **17**(4) 263-274 (1998), 2A534

Modeling and control of the in-situ thermoplastic composite tape-laying process, J Dyn Syst Meas Control **120**(4) 507-515 (Dec 1998), 3A424

Automatic temperature control system in producing process of a planar carrier catalytic element (Chinese), J Shanghai Jiaotong Univ **32**(6) 102-105 (Jun 1998), 4A406

Cerebellar model articulation controller (CMAC) based nonlinear process control systems - Part I: CMAC with general basis functions for modeling, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 41-44 (Jun 1998), 4A407

Disturbance decoupling for self-irregulating plants (Chinese), J Shanghai Jiaotong Univ **32**(8) 55-57 (Aug 1998), 4A408

Research on the algorithm of CNC profiling processing (Chinese), J Huazhong Univ Sci Tech **26**(8) 13-15 (Aug 1998), 4A409

Automated process planning for sheet metal bending operations, J Manuf Syst **17**(5) 338-360 (1998), 4A464

Vacuum forming of compound curved surfaces with a variable geometry mold, J Manuf Syst **17**(5) 325-337 (1998), 4A762

Double-controller scheme for control of processes with dominant delay, IEE Proc Control Theory Appl **145**(5) 479-484 (Sep 1998), 6A384

Design and simulation of an entry edge guide control system for tandem cold mills, J Manuf Sci Eng **121**(1) 69-75 (Feb 1999), 6A491

CMAC based nonlinear process control systems - II: Controller design, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 72-75 (Dec 1998), 8A391

Heterogeneous intelligent control systems, IEE Proc Control Theory Appl **145**(6) 551-558 (Nov 1998), 8T403

PID tuning based on loop-shaping H_∞ control, IEE Proc Control Theory Appl **145**(6) 485-490 (Nov 1998), 8A406

Linear quadratic Gaussian controller design for plasma current position and shape control system in ITER, Fusion Eng Des **45**(1) 55-64 (Mar 1999), 8A437

Nonlinear optimal control approach to central sewer network flow control, Int J Control **72**(5) 418-429 (Mar 1999), 8A456

Analysis of the robustness margin of SISO control systems with plant parametric uncertainty, JSME Int J Ser C **40**(3) 400-405 (Sep 1997), 9A389

Numerical computation of optimal feed rates for a fed-batch fermentation model, J Optim Theory Appl **100**(1) 1-13 (Jan 1999), 9A478

Application of fractal dimension to optimum deposition of NiCrAlY coating by D-gun spray, Mat Manuf Processes **14**(2) 195-204 (1999), 9T1026

Adaptive predictive control of a distillation column, Appl Math Comp Sci **9**(1) 193-206 (1999), 10A455

Generating unit control as a way of the power plant stability margin increase (Polish), Arch Energetics **27**(3-4) 37-61 (1998), 10T456

Optimal control of CNC cutting process, Chinese J Mech Eng **12**(1) 18-26 (Mar 1999), 10A457

Stochastic criterion for the optimal investment process, Appl Math Comp Sci **8**(3) 505-510 (1998), 10T458

Sub-optimal nonlinear predictive and adaptive control based on the parametric Volterra model, Appl Math Comp Sci **9**(1) 161-173 (1999), 10A459

Parsing of random graph languages for automated inspection in statistical-based quality assurance systems, Machine Graphics & Vision **7**(3) 565-623 (1998), 11T395

New approach for selection of optimal process parameters in abrasive water jet cutting, Mat Manuf Processes **14**(4) 581-600 (1999), 12A434

204E. Power systems

Model predictive control of a combined heat and power plant using local linear models, J Eng Gas Turbines Power **120**(4) 689-693 (Oct 1998), 2A535

Application of active combustion instability control to a heavy duty gas turbine, J Eng Gas Turbines Power **120**(4) 721-726 (Oct 1998), 2A1367

Mathematical study of very high voltage power networks - II: The AC power flow problem, SIAM J Appl Math **58**(5) 1547-1567 (Oct 1998), 3A425

Novel computerized water level control system of PWR steam generator of nuclear power plant, J Shanghai Univ **2**(3) 226-236 (Sep 1998), 3A426

Power transmission system modeling, Proc Inst Mech Eng C **212**(C6) 497-508 (1998), 3A427

Nonlinear excitation controller based on the inverse system method, J Huazhong Univ Sci Tech **26**(S1) 47-49 (May 1998), 4A410

Novel simplified approach to compute voltage stability margin, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 93-98 (Jun 1998), 4A411

Dynamics modeling of fluid power systems applying a global error descent algorithm to a self-organizing Radial Basis Function network, Mechatronics **8**(7) 727-745 (Oct 1998), 4T413

Fluid Power Systems and Technology - 1998 (ASME, New York, 1998) 7N13

New decentralized robust controller design for multi-area load-frequency control via in complete state feedback, Optimal Control Appl Methods **19**(5) 345-361 (Sep-Oct 1998), 7A356

Computational methods for the evaluation of the electromagnetic losses in electrical machinery, Arch Comput Methods Eng **5**(4) 385-443 (1998), 8A408

Further results on time-optimal control of two-link rigid manipulators, Int J Robotics Autom **13**(4) 113-124 (1998), 8A424

NARMAX modeling and robust control of internal combustion engines, Int J Control **72**(4) 289-304 (Mar 1999), 8A432

New method of hydropower compensation based on genetic algorithm (Chinese), J Shanghai Jiaotong Univ **32**(12) 77-81 (Dec 1998), 8A433

Study of structure optimization of steam-power systems (Chinese), J Dalian Univ Tech **38**(6) 687-690 (Nov 1998), 8A842

Rotational speed control of an OWC wave power plant, J Offshore Mech Arctic Eng **121**(2) 65-70 (May 1999), 9A1545

Thorium cycle as a future energy alternative (Polish), Arch Energetics **27**(3-4) 79-96 (1998), 10A460

Study of the effect upon flow-through delay time for the cascaded hydroelectric stations (Chinese), J Huazhong Univ Sci Tech **27**(5) 46-48 (May 1999), 11A396

Self-tuning turbine generator control for power plant, Mechatronics **9**(5) 513-537 (Aug 1999), 12A435

CMOS integrated pressure sensor optimization using electrical network simulator-FEM tool coupling, J Micromech Microeng **9**(2) 109-112 (Jun 1999), 12T459

Fault diagnosis of power electronic circuits using artificial neural networks (Chinese), J Tsinghua Univ Sci Tech **39**(3) 19-22 (Mar 1999), 12A499

Tabu search approach to fault diagnosis in power systems using fuzzy abductive inference (Chinese), J Tsinghua Univ Sci Tech **39**(3) 56-60 (Mar 1999), 12A502

Analysis of dynamic properties of a gas turbine engine in a ship's auxiliary power unit, Marine Tech Trans **9** 5-23 (1998), 12A1487

204F. Fluidic systems, pneumatics

Output feedback stabilization of hydraulic drives based on bilinear approximations and canonical observers, J Syst Control Eng **212**(I2) 79-85 (1998), 1A438

Fault classification of fluid power systems using a dynamics feature extraction technique and neural networks, J Syst Control Eng **212**(I2) 87-97 (1998), 1A448

Method to reduce noise in hydraulic systems by optimizing pipe clamp locations, J Syst Control Eng **212**(I4) 267-280 (1998), 3A325

Design, optimization and fabrication of surface micromachined pressure sensors, Mechatronics **8**(5) 505-519 (Aug 1998), 3T439

Large-force fluidic device micromachined in silicon, J Micromech Microeng **8**(3) 195-199 (Sep 1998), 3T444

Positive displacement micropump for microdialysis, Mechatronics **8**(5) 561-583 (Aug 1998), 3T448

Pressure transducer with a single-sided multilevel structure by maskless etching technology, Mechatronics **8**(5) 585-593 (Aug 1998), 3T449

Dynamic simulation investigation of high pressure servo control valve (Chinese), J Huazhong Univ Sci Tech **26**(7) 24-26 (Jul 1998), 4A412

Dynamics modeling of fluid power systems applying a global error descent algorithm to a self-organizing Radial Basis Function network, Mechatronics **8**(7) 727-745 (Oct 1998), 4T413

Modeling study and servo-control of air motor systems, Int J Control **71**(3) 459-476 (Oct 1998), 4A414

Adaptive model following control of an electrohydraulic servo tester with laminated spring (Chinese), J Xi'an Jiaotong Univ **32**(11) 86-90 (1998), 5A388

Flow-injection analysis in anticipation of the year 2000, Lab Robotics Autom **10**(6) 325-367 (1998), 5T1052

Optimization of feedback gains for a hydraulic servo system by genetic algorithms, J Syst Control Eng **212**(I5) 395-401 (1998), 6A366

Tabu search method for the optimization of fluid power circuits, J Syst Control Eng **212**(I5) 373-381 (1998), 6T370

Special issue: Flow control and optimization, Iowa State University and York University, Ames, Iowa , September 1998, Int J Comput Fluid Dyn **11**(1-2) 3-191 (1998), 6A395

Bifurcation-based procedure for designing and analyzing robustly stable nonlinear hydraulic servo systems, J Syst Control Eng **212**(I5) 383-394 (1998), 6A413

Design of a hydraulic force control system using a generalized predictive control algorithm, IEE Proc Control Theory Appl **145**(5) 428-436 (Sep 1998), 6A414

Dynamic behavior of servo-hydraulic drives, Nonlinear Dyn **17**(3) 247-268 (Nov 1998), 6A415

Theoretical analysis of pressure and flow ripple in flexible hoses containing tuners, J Syst Control Eng **212**(I6) 405-422 (1998), 6A416

Development of a MEMS microvalve array for fluid flow control, J Microelectromechanical Syst **7**(4) 395-403 (Dec 1998), 6A435

Pneumatic air table realized by micro-EDM, J Microelectromechanical Syst **7**(4) 380-386 (Dec 1998), 6A443

Fluid Power Systems and Technology - 1998 (ASME, New York, 1998) 7N13

Fluid mechanics of microdevices - The Freeman scholar lecture, J Fluids Eng **121**(1) 5-33 (Mar 1999), 7A353

Sliding mode control for a class of hydraulic position servo, Mechatronics **9**(1) 111-123 (Feb 1999), 7A391

Finite dimensional optimal control of Poiseuille flow, J Guidance Control Dyn **22**(2) 340-348 (Mar-Apr 1999), 8A382

Precise automated control of fluid volumes inside glass capillaries, J Microelectromechanical Syst **8**(1) 71-77 (Mar 1999), 8A434

Micromachined flow shear-stress sensor based on thermal transfer principles, J Microelectromechanical Syst **8**(1) 90-99 (Mar 1999), 8T447

Low-order dynamic model for flexible hydraulic cranes, J Syst Control Eng **213**(I1) 11-22 (1999), 9A186

Control of a servohydraulic positioning system using state-space controller with grey forecasting, JSME Int J Ser C **41**(3) 391-397 (Sep 1998), 9A467

Hydraulic actuator control with open-center electrohydraulic valve using a cerebellar model articulation controller neural network algorithm, J Syst Control Eng **213**(I1) 33-48 (1999), 9A472

Experimental implementations of decoupling self-organizing fuzzy control to a TITO pneumatic position control system, JSME Int J Ser C **42**(1) 85-92 (Mar 1999), 9A479

Fuzzy control of vertical pneumatic servo systems using virtual reference, JSME Int J Ser C **42**(1) 79-84 (Mar 1999), 9A480

Fuzzy PWM control of the positions of a pneumatic robot cylinder using high speed solenoid valve, JSME Int J Ser C **40**(3) 469-476 (Sep 1997), 9A481

Studies on opto-pneumatic servo system: Extension to a normal scale control system, JSME Int J Ser C **42**(1) 171-179 (Mar 1999), 9A482

Numerical design study of the valveless diffuser pump using a lumped-mass model, J Micromech Microeng **9**(1) 34-44 (Mar 1999), 9T493

Two dimensional variable factor learning controller and its application in pneumatic servo system, Chinese J Mech Eng **11**(4) 271-276 (Dec 1998), 10A401

Experimental study on influence of supplied pressure fluctuation on output characteristic of pressure control system of rolling mill, Chinese J Mech Eng **11**(2) 152-158 (Jun 1998), 10A461

Structural oscillation control using tuned liquid damper, Comput Struct **71**(4) 435-446 (May 1999), 10A462

Joint impedance pneumatic control for multilink systems, J Dyn Syst Meas Control **121**(2) 293-297 (Jun 1999), 12A413

Bi-directional fast flow sensor with a large dynamic range, J Micromech Microeng **9**(2) 186-189 (Jun 1999), 12T436

Dynamic modeling of capsule separator for control of hydraulic capsule pipelines, J Dyn Syst Meas Control **121**(2) 233-241 (Jun 1999), 12A437

Flow field characterization of a jet and vortex actuator, Exp Fluids **27**(1) 12-20 (Jun 1999), 12A438

Limitations of force tracking control for hydraulic servosystems, J Dyn Syst Meas Control **121**(2) 184-190 (Jun 1999), 12A439

Neural-network-based variable structure control of electrohydraulic servosystems subject to huge uncertainties without persistent excitation, IEEE/ASME Trans Mechatronics **4**(1) 50-59 (Mar 1999), 12T475

Designing, simulation and realization of in-plane operating microvalves using new etching techniques, J Micromech Microeng **9**(2) 194-198 (Jun 1999), 12T489

Optical devices based on fluidic controlled two-mode interference, J Micromech Microeng **9**(2) 203-205 (Jun 1999), 12T493

Sliding mode control of a hydraulic industrial robot, J Dyn Syst Meas Control **121**(2) 312-318 (Jun 1999), 12A533

204G. Digital and numerical control systems

Real-time error compensation technique and its application for NC machine tool (Chinese), J Shanghai Jiaotong Univ **32**(5) 28-33 (May 1998), 1A439

Key techniques to multi-purpose NC machine tool for 3D laser processing (Chinese), J Huazhong Univ Sci Tech **26**(8) 16-17 (Aug 1998), 4A415

Principle of real-time feature interpolation (Chinese), J Huazhong Univ Sci Tech **26**(8) 8-12 (Aug 1998), 4A416

Control scheme for a five-axis machine tool based on coordinate transformation, JSME Int J Ser C **40**(3) 477-483 (Sep 1997), 9A497

Genetic tuning of PID controllers using a neural network model: A seesaw example, J Intelligent & Robotic Syst **25**(1) 43-59 (May 1999), 11A397

Study on PID tuning of stage position control system (Japanese), J Japan Soc Precision Eng **65**(5) 763-767 (May 1999), 12T440

204H. Control components, sensors

Global control of linear systems with saturating actuators, Automatica **34**(7) 897-905 (Jul 1998), 1T394

Active vibration control of flexural-shear type frame structures with smart structures using piezoelectric actuators, Smart Mat Struct **7**(4) 479-488 (Aug 1998), 2A167

Vibration and sound radiation controls of beams using layered modal sensors and actuators, Smart Mat Struct **7**(4) 446-455 (Aug 1998), 2A180

Experimental studies of shallow spherical shell piezoceramic actuators as acoustic boundary control elements, Smart Mat Struct **7**(4) 467-471 (Aug 1998), 2A420

Adaptive robust backstepping control schemes suitable for PM synchronous motors, Int J Control **70**(6) 893-920 (Aug 1998), 2A506

Design, simulation and fabrication of doped TiO$_2$-coated surface acoustic wave oxygen sensor, J Intelligent Mat Syst Struct **8**(11) 953-959 (Nov 1997), 2A536

Performance of optical sensors in the control of flexible structures, J Intelligent Mat Syst Struct **8**(11) 920-928 (Nov 1997), 2A537

Practical design and verification of LQG controllers as applied to active structures, J Intelligent Mat Syst Struct **8**(11) 960-985 (Nov 1997), 2A538
Spatially convolving wave propagation sensors for structural control - Part I: Analytical development for 1D structures, J Intelligent Mat Syst Struct **8**(11) 929-952 (Nov 1997), 2A539
Geometrical modulation-based interferometry for displacement sensing using optically coupled suspended waveguides, J Microelectromechanical Syst **7**(3) 309-314 (Sep 1998), 2T542
Microfabrication of capacitive ultrasonic transducers, J Microelectromechanical Syst **7**(3) 295-302 (Sep 1998), 2T546
New silicon gas-flow sensor based on lift force, J Microelectromechanical Syst **7**(3) 303-308 (Sep 1998), 2A547
Optimal design and noise consideration of micromachined vibrating rate gyroscope with modulated integrative differential optical sensing, J Microelectromechanical Syst **7**(3) 329-338 (Sep 1998), 2A548
High speed 3D shape measurement using a non-scanning multiple-beam confocal imaging sensor, J Japan Soc Precision Eng **64**(7) 1022-1028 (Jul 1998), 2A585
In-situ cure monitoring using optical fiber sensors: A comparative study, Smart Mat Struct **7**(4) 557-568 (Aug 1998), 2A586
Smart marine structures: An approach to the monitoring of ship structures with fiber-optic sensors, Smart Mat Struct **7**(4) 472-478 (Aug 1998), 2A945
Inertial stick-slip actuator for active control of shape and vibration, J Intelligent Mat Syst Struct **8**(12) 1001-1011 (Dec 1997), 3A127
Effective selection of piezoceramic actuators for an experimental flexible wing, J Guidance Control Dyn **21**(5) 704-709 (Sep-Oct 1998), 3T411
Modeling and parameter identification of harmonic drive systems, J Dyn Syst Meas Control **120**(4) 439-444 (Dec 1998), 3A428
Rugged and reliable system for measuring engine crankshaft speed fluctuations, J Dyn Syst Meas Control **120**(4) 533-536 (Dec 1998), 3A429
Design aspects of shape memory actuators, Mechatronics **8**(6) 635-656 (Sep 1998), 3A435
Design, optimization and fabrication of surface micromachined pressure sensors, Mechatronics **8**(5) 505-519 (Aug 1998), 3T439
Development of cascadable microdrives with muscle-like operating behavior, J Micromech Microeng **8**(3) 222-229 (Sep 1998), 3T440
Development of comfort sensing system for human environment, Mechatronics **8**(5) 459-466 (Aug 1998), 3T441
Development of surface micromachined magnetic actuators using electroplated permalloy, Mechatronics **8**(5) 613-633 (Aug 1998), 3T442
Hysteresis and vibration compensation for piezoactuator, J Guidance Control Dyn **21**(5) 710-717 (Sep-Oct 1998), 3T652
Structural modal testing with various actuators and sensors, Mech Syst Signal Processing **12**(5) 627-639 (Sep 1998), 4A183
Sensor and actuator placement for modal identification, Mech Syst Signal Processing **12**(5) 641-659 (Sep 1998), 4A360
Validation of the harshness problem of automotive active suspensions, Vehicle Syst Dyn **30**(2) 89-115 (Aug 1998), 4A405
Dynamic analysis of a mechanical airbag system sensor, J Sound Vib **217**(2) 283-296 (Oct 1998), 4A417
Review on the modeling of piezoelectric sensors and actuators incorporated in intelligent structures, J Intelligent Mat Syst Struct **9**(1) 3-19 (Jan 1998), 4A418
Optimal control of a magnetic bearing without bias flux using finite voltage, Optimal Control Appl Methods **19**(4) 227-246 (Jul-Aug 1998), 4A424
Analyses of vision-based lateral control for automated highway system, Vehicle Syst Dyn **30**(5) 345-373 (Nov 1998), 5A379
High temperature proximity measurement in aero and industrial turbomachinery, J Eng Gas Turbines Power **121**(1) 167-173 (Jan 1999), 5A389
Recent advances in sensing and control of flexible structures via piezoelectric materials technology, Appl Mech Rev **52**(1) 1-16 (Jan 1999), 5A774
Measurement and analysis of impact-induced strain using extrinsic Fabry-Perot fiber optic sensors, Smart Mat Struct **7**(6) 745-751 (Dec 1998), 6A241
Robustness enhancement of an optimal fuzzy control electrical position servo system by a novel model-following approach, J Syst Control Eng **212**(16) 449-458 (1998), 6T392
Data fusion processing applied to enhance reliability of sensors (Chinese), J Xi'an Jiaotong Univ **32**(12) 5-7 (1998), 6A417
Geometric analysis of optical fiber EFPI sensor performance, Smart Mat Struct **7**(6) 907-910 (Dec 1998), 6A418
Ionic polymer-metal composites as biomimetic sensors, actuators and artificial muscles: A review, Smart Mat Struct **7**(6) R15-R30 (Dec 1998), 6A419
Method for sonar based recognition of walking people, Robotics Autonomous Syst **25**(1-2) 117-126 (Oct 1998), 6T420
Design of microelectrode arrays for electrostatic microactuators and capacitive microsensors, J Intelligent Mat Syst Struct **9**(2) 95-103 (Feb 1998), 6A427
Novel biomimetic acturator system, Robotics Autonomous Syst **25**(1-2) 1-18 (Oct 1998), 6A430
Displacement sensing using geometrical modulation in reflection mode of coupled optical waveguides, J Micromech Microeng **8**(4) 323-326 (Dec 1998), 6A437
Pull-in study of an electrostatic torsion microactuator, J Microelectromechanical Syst **7**(4) 373-379 (Dec 1998), 6A444
Modeling and control of a lightly damped T-beam using piezoceramic actuators and sensors, Smart Mat Struct **7**(6) 899-906 (Dec 1998), 6A716
Processing flaws in PZT transducer rings, Smart Mat Struct **7**(6) 867-873 (Dec 1998), 6A840
Procedure for upgrading an electronic control diesel fuel injection system by considering several engine operating regimes simultaneously, J Mech Des **121**(1) 159-165 (Mar 1999), 7A392
Parameter identification of induction motor model using genetic algorithms, IEE Proc Control Theory Appl **145**(6) 587-593 (Nov 1998), 8A365
Effectiveness and optimization of fiber Bragg grating sensor as embedded strain sensor, Smart Mat Struct **8**(1) 154-160 (Feb 1999), 8A435
History of mechatronics system: From IC-controlled mechanism to micro-nano-world (Japanese), J Japan Soc Precision Eng **65**(1) 19-24 (Jan 1999), 8T436
Linear quadratic Gaussian controller design for plasma current position and shape control system in ITER, Fusion Eng Des **45**(1) 55-64 (Mar 1999), 8A437
Magnetic microactuators based on polymer magnets, J Microelectromechanical Syst **8**(1) 2-9 (Mar 1999), 8T446
Torque evaluation of a LIGA fabricated electrostatic micromotor, J Microelectromechanical Syst **8**(1) 115-123 (Mar 1999), 8A449
Studies on opto-pneumatic servo system: Extension to a normal scale control system, JSME Int J Ser C **42**(1) 171-179 (Mar 1999), 9A482
Integrated micro focusing and tracking sensor, J Micromech Microeng **9**(1) 71-77 (Mar 1999), 9T487
Micromachined double backplate differential capacitive microphone, J Micromech Microeng **9**(1) 30-33 (Mar 1999), 9T490
Fuzzy neural network position controller for ultrasonic motor drive using push-pull DC-DC converter, IEE Proc Control Theory Appl **146**(1) 99-107 (Jan 1999), 10T463
Mechanical load transfer into a distributed optical fiber sensor due to a linear strain gradient: Embedded and surface bonded cases, Smart Mat Struct **8**(2) 175-181 (Apr 1999), 10A464
Optimal design of micro-actuators based on SMA wires, Smart Mat Struct **8**(2) 197-203 (Apr 1999), 10A483
Active control of composite plates with integrated piezoelectric sensors and actuators under various dynamic loading conditions, Smart Mat Struct **8**(2) 223-237 (Apr 1999), 10A979
Selective modal transducers for piezolaminated anisotropic shells, J Guidance Control Dyn **22**(3) 455-466 (May-Jun 1999), 11A398
Development of an active force sensor with an actuation capability - Part I: A study on basic principles (Japanese), J Japan Soc Precision Eng **65**(5) 758-762 (May 1999), 12A441
Fabrication and characterization of a piezoelectric accelerometer, J Micromech Microeng **9**(2) 123-126 (Jun 1999), 12T442
Modeling of piezo actuator's nonlinear and frequency dependent dynamics, Mechatronics **9**(4) 391-410 (Jun 1999), 12A443
Oscillation, instability and control of stepper motors, Nonlinear Dyn **18**(4) 383-404 (Apr 1999), 12A444
Robust nonlinear control and torque ripple reduction for permanent magnet stepper motors, IEE Proc Control Theory Appl **146**(2) 186-196 (Mar 1999), 12A445
Tantalum oxide thin films as protective coatings for sensors, J Micromech Microeng **9**(2) 113-118 (Jun 1999), 12T446
Microfabricated electrostatic actuators for hard disk drives, IEEE/ASME Trans Mechatronics **3**(3) 175-183 (Sep 1998), 12A451
Distorted laser interferometric angle measurements of a disk drive pivot, IEEE/ASME Trans Mechatronics **3**(4) 265-274 (Dec 1998), 12A463
Lateral position sensing system for automated vehicle following, IEEE/ASME Trans Mechatronics **3**(3) 218-224 (Sep 1998), 12A469
Microcontroller-based sensor to measure serum column height, Mechatronics **9**(4) 329-348 (Jun 1999), 12A471
Nonlinear adaptive control of direct-drive brushless DC motors and applications to robotic manipulators, IEEE/ASME Trans Mechatronics **4**(1) 71-81 (Mar 1999), 12A476
Nonlinear control of mechatronic systems with permanent-magnet DC motors, Mechatronics **9**(5) 539-552 (Aug 1999), 12T477
Novel omnidirectional image sensing system for assembling parts with arbitrary cross-sectional shapes, IEEE/ASME Trans Mechatronics **3**(4) 275-292 (Dec 1998), 12A478
Pivot friction compensation using an accelerometer and a disturbance observer for hard disk drives, IEEE/ASME Trans Mechatronics **3**(3) 194-201 (Sep 1998), 12A480
Recurve piezoelectric-strain-amplifying actuator architecture, IEEE/ASME Trans Mechatronics **3**(4) 293-301 (Dec 1998), 12A481
Simplified modeling and dynamic analysis of a Law's relay actuator, Mechatronics **9**(5) 463-475 (Aug 1999), 12T482
Comparison of lateral and vertical switches for application as microrelays, J Micromech Microeng **9**(2) 146-150 (Jun 1999), 12T487
Micro-coil with movable core for application in an inductive displacement sensor, J Micromech Microeng **9**(2) 119-122 (Jun 1999), 12T492
Optical fiber switches based on full wafer silicon micromachining, J Micromech Microeng **9**(2) 151-155 (Jun 1999), 12T494
Sensor, sensor interfacing and front-end data management for stand-alone microsystems, J Micromech Microeng **9**(2) R1-R7 (Jun 1999), 12T496
Modeling and evaluating color information for robot vision, Mechatronics **9**(4) 429-446 (Jun 1999), 12T525
Impact of alternative controller strategies on exhaust emissions from an integrated diesel-continuously variable transmission powertrain, Proc Inst Mech Eng D **213**(D2) 95-107 (1999), 12A1454

204I. Instrumentation, computer hardware

Machine vision based inspection of oil seals, J Manuf Syst **17**(3) 159-166 (1998), 1A505
Recent applications of the IMA infrared transducer in the analysis of vibrating mechanical systems, J Sound Vib **220**(4) 757-764 (Mar 1999), 8T124
27th International Vacuum Microbalance Techniques Conference: Lublin, Poland July 16-18, 1997, J Thermal Anal Calorimetry **55**(2) 335-705 (1999), 10T465
Control-structure interaction in disk drives using model superposition and FE analysis, J Info Storage Processing Syst **1**(1) 87-94 (Jan 1999), 12A447
Design techniques for spindle motors in data-storage devices, J Info Storage Processing Syst **1**(1) 105-114 (Jan 1999), 12A448
Free and forced vibrations of a rotating disk pack and spindle motor system with hydrodynamic bearings, J Info Storage Processing Syst **1**(1) 45-58 (Jan 1999), 12A449
Increased disturbance rejection for hard disk drives by using accelerometers, J Info Storage Processing Syst **1**(1) 95-103 (Jan 1999), 12A450
Microfabricated electrostatic actuators for hard disk drives, IEEE/ASME Trans Mechatronics **3**(3) 175-183 (Sep 1998), 12A451
Numerical and experimental investigation of 50% subambient pressure tripad sliders, J Info Storage Processing Syst **1**(1) 39-44 (Jan 1999), 12T452
Customizable coherent servo demodulation for disk drives, IEEE/ASME Trans Mechatronics **3**(3) 184-193 (Sep 1998), 12A461
Design of miniaturized displacement transducers for deep hole diameter measurement, Mechatronics **9**(4) 317-327 (Jun 1999), 12A462
Disturbance-observer design for magnetic hard-disk drive servo systems, J Info Storage Processing Syst **1**(1) 75-85 (Jan 1999), 12A464
High-bandwidth high-accuracy rotary microactuators for magnetic hard disk drive tracking servos, IEEE/ASME Trans Mechatronics **3**(3) 156-165 (Sep 1998), 12A468
Mode-switching control for motion control and its application to disk drives: Design of optimal mode-switching conditions, IEEE/ASME Trans Mechatronics **3**(3) 202-209 (Sep 1998), 12T472
Pivot friction compensation using an accelerometer and a disturbance observer for hard disk drives, IEEE/ASME Trans Mechatronics **3**(3) 194-201 (Sep 1998), 12A480
MEMS-based integrated head-actuator-slider for hard disk drives, IEEE/ASME Trans Mechatronics **3**(3) 166-174 (Sep 1998), 12A491
Time dependence of liquid accumulation on flying sliders: Fly stiction, J Info Storage Processing Syst **1**(1) 33-38 (Jan 1999), 12T962
Macroscale and microscale tribological studies of molecularly thick boundary layers of perfluoropolyether lubricants for magnetic thin-film rigid disks, J Info Storage Processing Syst **1**(1) 1-21 (Jan 1999), 12A1263

204K. Software, expert systems, artificial intelligence

Control chart pattern recognition using a new type of self-organizing neural network, J Syst Control Eng **212**(I2) 115-127 (1998), 1T440
Fatigue life calculation of flawed structures: Based on artificial neural network with special learning set, Int J Pressure Vessels Piping **75**(3) 263-269 (Mar 1998), 1A441
Knowledge representation and conversion for hybrid expert systems, J Mech Des **120**(3) 468-474 (Sep 1998), 1A442
Fault classification of fluid power systems using a dynamics feature extraction technique and neural networks, J Syst Control Eng **212**(I2) 87-97 (1998), 1A448
Intelligent joint fault diagnosis of industrial robots, Mech Syst Signal Processing **12**(4) 571-588 (Jul 1998), 1A449
Damage characterization of carbon-carbon laminates using neural network techniques on AE signals, NDT&E Int **31**(5) 329-340 (Oct 1998), 1A881
Analysis of above-ground pipelines on unilateral supports: A neural network approach, Int J Pressure Vessels Piping **75**(1) 43-48 (Jan 1998), 1A1021
Artificial intelligence based techniques for processing segmented images of wood boards, Proc Inst Mech Eng E **212**(E2) 119-129 (1998), 2A540
Fuzzy neural systems for controlling sound localization in stereophonic reproduction, IEE Proc Control Theory Appl **145**(4) 393-401 (Jul 1998), 3A321
Intelligent control for handling motion nonlinearity in a retrofitted machining table, IEE Proc Control Theory Appl **145**(4) 403-408 (Jul 1998), 3A414
Autonomous intelligent cruise control with actuator delays, J Intelligent & Robotic Syst **23**(1) 27-43 (Sep 1998), 3A430
Multi-mode control of structures by using neural networks with Marquardt algorithms, J Intelligent Mat Syst Struct **8**(12) 1035-1043 (Dec 1997), 3A431
Optimum subdivision of an extended system for real-time control in earthquake emergency (Japanese), Proc JSCE **598**(I-44) 97-109 (Jul 1998), 3A432
Spatially convolving wave sensors for structural control - Part II: Experimental verification using PVDF sensors, J Intelligent Mat Syst Struct **8**(12) 1059-1072 (Dec 1997), 3A433
Towards pultrusion process optimization using artificial neural networks, J Mat Processing Tech **83**(1-3) 131-141 (Nov 1998), 3A434
Robotic motion controller using a self-organizing fuzzy logic algorithm with grey prediction, J Syst Control Eng **212**(I4) 293-304 (1998), 3A469
Dynamics modeling of fluid power systems applying a global error descent algorithm to a self-organizing Radial Basis Function network, Mechatronics **8**(7) 727-745 (Oct 1998), 4T413
Artificial neural network approach to mechanism kinematic chain isomorphism identification, Mech Machine Theory **34**(2) 271-283 (Feb 1999), 4A419
Control algorithms for stabilizing underactuated robots, J Robotic Syst **15**(12) 681-697 (Dec 1998), 4A420
Development of a fuzzy logic controller that drives a passive compliant manipulator, J Robotic Syst **15**(12) 671-680 (Dec 1998), 4A421
Towards artificial decision making, Robotics Autonomous Syst **24**(3-4) 93-198 (Sep 1998), 4A422
Dynamics and fuzzy control of a levitated particle, Nonlinear Dyn **17**(1) 61-76 (Sep 1998), 4A427
New fault diagnosis expert system (Chinese), J Shanghai Jiaotong Univ **32**(6) 137-139 (Jun 1998), 4A432
Study on artificial intelligence and geometric reasoning based on manufacturing automation techniques (Chinese), J Huazhong Univ Sci Tech **26**(8) 1-3 (Aug 1998), 4A478
Progress report on the Manufacturing Analysis Service: An Internet-based reference tool, J Manuf Syst **17**(5) 389-398 (1998), 4A500
Towards a fault tolerant cell controller for flexible assembly systems: An approach using colour Petri-Nets, Mechatronics **8**(7) 747-764 (Oct 1998), 4A506
Robust approximate pole assignment for second-order systems: Neural network computation, J Guidance Control Dyn **21**(6) 923-929 (Nov-Dec 1998), 5A357
Combination of expert systems with databases (Chinese), J Beijing IT **18**(1) 96-99 (Feb 1998), 5A390
Theoretical and experimental study of crossover operators of genetic algorithms, J Optim Theory Appl **99**(2) 271-302 (Nov 1998), 5T391
Application of combination of neural network and fuzzy fault diagnosis expert system (Chinese), J Beijing IT **18**(1) 81-86 (Feb 1998), 5A392
Study on automatic monitor of cutting tool states (Chinese), J Beijing IT **18**(3) 279-283 (Jun 1998), 5A628

Applications of probability density estimation to the detection of abnormal conditions in engineering, Proc Inst Mech Eng C **212**(C8) 687-703 (1998), 6A116
Neural, fuzzy and genetic techniques in robotics and control, J Intelligent & Robotic Syst **23**(2-4) 105-405 (Oct-Dec 1998), 6T355
Optimization of feedback gains for a hydraulic servo system by genetic algorithms, J Syst Control Eng **212**(I5) 395-401 (1998), 6A366
Predictive control for nonlinear systems using neural networks, Int J Control **71**(6) 1119-1132 (Dec 1998), 6A391
Self-tuning proportional, integral and derivative controller based on genetic algorithm least squares, J Syst Control Eng **212**(16) 437-448 (1998), 6A393
Neural network based tracking control of mechanical systems, J Dyn Syst Meas Control **121**(1) 148-154 (Mar 1999), 6A400
Automatic human face recognition system, Opt Lasers Eng **30**(3-4) 305-314 (Sep-Oct 1998), 6A421
Expert system for optimal selection of a press for a sheet metal operation, J Mat Processing Tech **86**(1-3) 131-138 (Feb 1999), 6A422
Genetic learning of fuzzy reactive controllers, Robotics Autonomous Syst **25**(1-2) 33-41 (Oct 1998), 6A423
Towards a "smart window" for microwave applications, Smart Mat Struct **7**(6) 752-758 (Dec 1998), 6A424
Using neural networks to predict parameters in the hot working of aluminum alloys, J Mat Processing Tech **86**(1-3) 245-251 (Feb 1999), 6A425
Adaptive neural network feedback control of a passive line-of-sight stabilization system, Mechatronics **8**(8) 887-903 (Dec 1998), 6A426
Evolution of a world model for a miniature robot using genetic programming, Robotics Autonomous Syst **25**(1-2) 105-116 (Oct 1998), 6T460
Trajectory tracking control of robot manipulators using a neural-network-based torque compensator, J Syst Control Eng **212**(I5) 361-372 (1998), 6A472
Genetic design of dynamically optimal robotic manipulators, J Syst Control Eng **212**(16) 423-436 (1998), 6A474
Optimal control model of neural networks for constrained optimization problems, Optimal Control Appl Methods **19**(5) 371-376 (Sep-Oct 1998), 7T343
Multi-layer hierarchical rule learning in reactive robot control using incremental decision trees, J Intelligent & Robotic Syst **24**(2) 99-124 (Feb 1999), 7A369
Neural network solution of the inverse vibration problem, NDT&E Int **32**(2) 91-99 (Mar 1999), 7A393
Shrinkage analysis of molded parts using neural networks, J Reinforced Plastics Composites **18**(2) 186-195 (1999), 7A428
Feature-based modeling and neural networks-based CAPP for integrated manufacturing, Int J Comput Integrated Manuf **12**(1) 61-74 (Jan-Feb 1999), 7T435
Object-oriented design of the control software for a flexible manufacturing system, Int J Comput Integrated Manuf **12**(1) 1-14 (Jan-Feb 1999), 7A443
Classification of surrounding rock of deepening roadway based on engineering geology and artificial neural network (Chinese), J China Univ Mining Tech **28**(1) 69-73 (1999), 7A654
Towards automated interpretation of ultrasonic NDT data, NDT&E Int **32**(2) 101-107 (Mar 1999), 7A794
Approximate inverse mapping in ECT, based on aperture shifting and neural network regression, J Nondestruct Eval **17**(4) 209-221 (Dec 1998), 7A797
Optimization of material composition of nonhomogeneous hollow circular cylinder for thermal stress relaxation making use of neural network, J Thermal Stresses **22**(1) 1-22 (Jan-Feb 1999), 7A1428
Parameter identification of induction motor model using genetic algorithms, IEE Proc Control Theory Appl **145**(6) 587-593 (Nov 1998), 8A365
Rule regulation of indirect adaptive fuzzy controller design, IEE Proc Control Theory Appl **145**(6) 513-518 (Nov 1998), 8T370
Neural network α-th order inverse system method for the control of nonlinear continuous systems, IEE Proc Control Theory Appl **145**(6) 519-522 (Nov 1998), 8T409
Adaptive control of space structures via recurrent neural networks, Dyn Control **9**(1) 5-20 (Jan 1999), 8A419
Learning complex tasks using a stepwise approach, J Intelligent & Robotic Syst **24**(1) 43-68 (Jan 1999), 8A438
Plan execution based on active perception: Adding hints to plans, Autonomous Robots **6**(1) 53-68 (Jan 1999), 8A439
Study on forming control of a nerve circuit network - 2nd report: Automatic forming and its performance of a nerve circuit network using an elite strategy (Japanese), J Japan Soc Precision Eng **65**(1) 106-110 (Jan 1999), 8A440
Symbolic navigation with a generic map, Autonomous Robots **6**(1) 69-88 (Jan 1999), 8A441
Adaptive neural network based controller for robots, Mechatronics **9**(2) 147-162 (Mar 1999), 8A471
Human-assisted virtual environment modeling for robots, Autonomous Robots **6**(1) 89-103 (Jan 1999), 8A477
Artificial neural network technology for the data processing of on-line corrosion fatigue crack growth monitoring, Int J Pressure Vessels Piping **76**(2) 113-116 (Feb 1999), 8A733
Static modeling of GMAW process using artificial neural networks, Mat Manuf Processes **14**(1) 13-35 (1999), 8T951
New evolution strategy and its application to solving optimal control problems, JSME Int J Ser C **41**(3) 406-412 (Sep 1998), 9A439
Hydraulic actuator control with open-center electrohydraulic valve using a cerebellar model articulation controller neural network algorithm, J Syst Control Eng **213**(I1) 33-48 (1999), 9A472
Performance improvement of robot manipulator control using an on-line neural network compensator, J Syst Control Eng **213**(I1) 49-60 (1999), 9A473
Artificial intelligence in engineering, Int J Machine Tools Manuf **39**(6) 937-949 (Jun 1999), 9A483
Neural network applied to prediction of the failure stress for a pressurized cylinder containing defects, Int J Pressure Vessels Piping **76**(4) 215-219 (Apr 1999), 9A484
Hybrid artificial neural network inverse kinematic solution for accurate robot path control, J Syst Control Eng **213**(I1) 23-32 (1999), 9A514
Integrated knowledge-based approach and system for product design for assembly, Int J Comput Integrated Manuf **12**(3) 211-237 (May-Jun 1999), 9A542
Intelligent product manuals, J Syst Control Eng **213**(I1) 65-76 (1999), 9T543
Unified framework for the development of automated manufacturing systems supervisory software for the pharmaceutical industry, Int J Comput Integrated Manuf **12**(3) 193-210 (May-Jun 1999), 9A547
Modeling surface texture in the peripheral milling process using neural network, spline, and fractal methods with evidence of chaos, J Manuf Sci Eng **121**(2) 251-256 (May 1999), 9A781
Development of expert system for process planning in grinding with grinding center, Int J Japan Soc Precision Eng **32**(4) 260-266 (Dec 1998), 9A784
Introns for accelerating quasi-macroevolution, JSME Int J Ser C **41**(3) 398-405 (Sep 1998), 9A1077
Dynamic simulation of a steam generator by neural networks, Nucl Eng Des **187**(2) 197-213 (Feb 1999), 9A1516
Comparative study of neural network structures in identification of nonlinear systems, Mechatronics **9**(3) 287-300 (Apr 1999), 10A389
Automatic design of fuzzy rule base for modeling and control using evolutionary programming, IEE Proc Control Theory Appl **146**(1) 9-16 (Jan 1999), 10A431
Genetic approach to decentralized PI controller tuning for multivariable processes, IEE Proc Control Theory Appl **146**(1) 58-64 (Jan 1999), 10A436
Use of a recurrent neural network in discrete sliding-mode control, IEE Proc Control Theory Appl **146**(1) 84-90 (Jan 1999), 10A439
Implementation of N-step-ahead neurocontrol on a 3-axes heavy duty hydraulic manipulator, Mechatronics **9**(3) 235-270 (Apr 1999), 10A450
Fuzzy neural network position controller for ultrasonic motor drive using push-pull DC-DC converter, IEE Proc Control Theory Appl **146**(1) 99-107 (Jan 1999), 10T463
Smooth vision-based autonomous land vehicle navigation in indoor environments by person following using sequential pattern recognition, J Robotic Syst **16**(5) 249-262 (May 1999), 10A484
Evolving control strategies for suppressing heteroclinic bursting, Dyn Control **9**(2) 149-171 (Apr 1999), 11T372
Software environment for gain scheduled controller design, Model Ident Control **19**(4) 185-206 (Oct 1998), 11A376
Adaptive model inversion flight control for tilt-rotor aircraft, J Guidance Control Dyn **22**(3) 402-407 (May-Jun 1999), 11A378
Iterative learning control using information database, J Intelligent & Robotic Syst **25**(1) 27-41 (May 1999), 11A399
Two-stage fuzzy controller for a flexible link manipulator, Int J Robotics Autom **14**(1) 9-14 (1999), 11A400
Knowledge based system for creep-fatigue assessment, Nucl Eng Des **188**(3) 289-301 (May 1999), 11A758
Optimal digital design of hybrid uncertain systems using genetic algorithms, IEE Proc Control Theory Appl **146**(2) 119-130 (Mar 1999), 12T417
New approach for selection of optimal process parameters in abrasive water jet cutting, Mat Manuf Processes **14**(4) 581-600 (1999), 12A434
Modeling of piezo actuator's nonlinear and frequency dependent dynamics, Mechatronics **9**(4) 391-410 (Jun 1999), 12A443
Component specifications for robotics integration, Autonomous Robots **6**(3) 247-264 (Jun 1999), 12A453
Fault prediction and compensation functions in a diagnostic knowledge-based system for hydraulic systems, J Intelligent & Robotic Syst **25**(2) 153-165 (Jun 1999), 12A454
Iterative learning control utilizing the error prediction method, J Intelligent & Robotic Syst **25**(2) 95-108 (Jun 1999), 12A455
Message-based evaluation in scheme for high-level robot control, J Intelligent & Robotic Syst **25**(2) 109-119 (Jun 1999), 12A456
Perception-based intelligent robots, Autonomous Robots **6**(2) 113-238 (Apr 1999), 12T457
Comparison of sliding-mode and fuzzy neural network control for motor-toggle servomechanism, IEEE/ASME Trans Mechatronics **3**(4) 302-318 (Dec 1998), 12A460
Neural-network-based variable structure control of electrohydraulic servosystems subject to huge uncertainties without persistent excitation, IEEE/ASME Trans Mechatronics **4**(1) 50-59 (Mar 1999), 12T475
Influence of the design parameters on the stress state of saddle-supported pipelines: An artificial neural network approach, Int J Pressure Vessels Piping **76**(7) 401-409 (Jun 1999), 12A955

204M. Mechatronics (computer-integrated electromechanical systems)

Connection approach to mathematical modeling of nonlinear mechatronic systems (Chinese), J Shanghai Jiaotong Univ **32**(5) 64-68 (May 1998), 1A443
Distributed expert system for the monitoring and control of chemical processes, Lab Robotics Autom **10**(3) 163-168 (1998), 1A444
Generic coordinate transformation uncertainty assessment approach and its application in machine vision metrology, Int J Machine Tools Manuf **38**(10-11) 1241-1256 (Oct-Nov 1998), 1A445
Guidance and control algorithm for scent tracking micro-robotic vehicle swarms, J Dyn Syst Meas Control **120**(3) 353-359 (Sep 1998), 1A456
Manufacturing systems and mechatronics (Japanese), J Japan Soc Precision Eng **64**(6) 813-818 (Jun 1998), 1T508
Difference driven design for machine control programs, J Japan Soc Precision Eng **64**(7) 1096-1100 (Jul 1998), 2T541
Construction and experimental investigation of a PC-controlled constant superheating expansion valve, Sci Eng J (Ciencia Eng) **7**(1) 66-71 (Jan-Jun 1998), 2A1303
Design aspects of shape memory actuators, Mechatronics **8**(6) 635-656 (Sep 1998), 3A435
Robust, digital, nonlinear control of magnetic-levitation systems, J Dyn Syst Meas Control **120**(4) 488-495 (Dec 1998), 3A436
VRCC: A variable remote center compliance device, Mechatronics **8**(6) 657-672 (Sep 1998), 3A437
Microelectromechanical microrelays, Mechatronics **8**(5) 535-547 (Aug 1998), 3T445
Artificial force reflection control for teleoperated mobile robots, Mechatronics **8**(6) 707-717 (Sep 1998), 3T464
Proof-of-concept investigation on active vibration control of hybrid smart structures, Mechatronics **8**(6) 673-689 (Sep 1998), 3A887
Validation of a nonlinear automotive seat cushion vibration model, Vehicle Syst Dyn **30**(1) 55-68 (Jul 1998), 4A194
Fuzzy sliding mode controlled slider-crank mechanism using a PM synchronous servo motor drive, Int J Mech Sci **41**(3) 337-355 (Mar 1999), 4A423
Optimal control of a magnetic bearing without bias flux using finite voltage, Optimal Control Appl Methods **19**(4) 227-246 (Jul-Aug 1998), 4A424
Various developments in mechatronics in Asia, Mechatronics **8**(7) 777-791 (Oct 1998), 4T425
DUMASS: A surgical assist robot for minimal access surgery, Mechatronics **8**(7) 793-803 (Oct 1998), 4A463
Phase-locking and bifurcations of the sinusoidally-driven double scroll circuit, Nonlinear Dyn **17**(2) 119-139 (Oct 1998), 5T97
Adaptive model following control of an electrohydraulic servo tester with laminated spring (Chinese), J Xi'an Jiaotong Univ **32**(11) 86-90 (1998), 5A388
Presentation and generation of fault diagnosis knowledge for mechano-electronic systems (Chinese), J Beijing IT **18**(4) 420-425 (Aug 1998), 5A394
Dynamic Systems and Control Division - 1998 (ASME, New York, 1998) 6N12
Adaptive neural network feedback control of a passive line-of-sight stabilization system, Mechatronics **8**(8) 887-903 (Dec 1998), 6A426
Design of microelectrode arrays for electrostatic microactuators and capacitive microsensors, J Intelligent Mat Syst Struct **9**(2) 95-103 (Feb 1998), 6A427
Development of a parallel wire mechanism for measuring position and orientation of a robot end-effector, Mechatronics **8**(8) 845-861 (Dec 1998), 6A428
Nonlinear dynamic strain analysis on rotor blade structures with embedded piezoceramic sensors for active vibration control, Mechatronics **8**(8) 805-820 (Dec 1998), 6A429
Novel biomimetic acturator system, Robotics Autonomous Syst **25**(1-2) 1-18 (Oct 1998), 6A430
Optimal control of adaptive building structures under blast loading, Mechatronics **8**(8) 821-844 (Dec 1998), 6A431
Advanced LIGA technology for the integration of an electrostatically controlled bearing in a wobble micromotor, J Microelectromechanical Syst **7**(4) 423-427 (Dec 1998), 6A433
Issues associated with the design, fabrication and testing of a crystalline silicon ring gyroscope with electromagnetic actuation and sensing, J Micromech Microeng **8**(4) 284-292 (Dec 1998), 6A439
Sliding mode control for a class of hydraulic position servo, Mechatronics **9**(1) 111-123 (Feb 1999), 7A391
Control of low velocity friction and gear backlash in a machine tool feed drive system, Mechatronics **9**(1) 33-52 (Feb 1999), 7A394
Frequency reshaped quadratic control of a low-cost human-level performance belt-driven robot, Mechatronics **9**(1) 95-110 (Feb 1999), 7T395
New design project of the line feed structure for large spherical radio telescope and its nonlinear dynamic analysis, Mechatronics **9**(1) 53-64 (Feb 1999), 7A396
Robust distributed controller of a single-link SCARA-Cartesian smart materials robot, Mechatronics **9**(1) 65-93 (Feb 1999), 7A397
Tactile sensing for mechatronics: A state of the art survey, Mechatronics **9**(1) 1-31 (Feb 1999), 7A398
Q^2-symbolic reasoning about noisy dynamic systems, J Intelligent & Robotic Syst **24**(3) 295-311 (Mar 1999), 8T75
Q^2-symbolic reasoning about noisy dynamic systems, Nonlinear Anal **36**(5) 295-311 (Jun 1999), 8T76
Precise automated control of fluid volumes inside glass capillaries, J Microelectromechanical Syst **8**(1) 71-77 (Mar 1999), 8A434
Behavior-based artificial intelligence in miniature mobile robot, Mechatronics **9**(2) 185-206 (Mar 1999), 8A442
Design of a high efficiency, large stroke, electromechanical actuator, Smart Mat Struct **8**(1) 13-30 (Feb 1999), 8A443
Torque evaluation of a LIGA fabricated electrostatic micromotor, J Microelectromechanical Syst **8**(1) 115-123 (Mar 1999), 8A449
Application of position-force control to scale calibration, Mechatronics **9**(2) 207-224 (Mar 1999), 8A454
Special Issue: Field and Service Robotics, Robotics Autonomous Syst **26**(2-3) 81-232 (Feb 1999), 8A461
Mechanical and electromechanical properties of calcium-modified lead titanate-poly(vinylidene fluoride-trifluoroethylene) 0 - 3 composites, Smart Mat Struct **8**(1) 57-63 (Feb 1999), 8A605
Development of variable RCC using elastomer shear pads, JSME Int J Ser C **41**(4) 867-878 (Dec 1998), 9A485
Mechanical microactuators with photostrictive control, JSME Int J Ser C **41**(4) 886-892 (Dec 1998), 9A500
Comparative study of neural network structures in identification of nonlinear systems, Mechatronics **9**(3) 287-300 (Apr 1999), 10A389
Implementation of N-step-ahead neurocontrol on a 3-axes heavy duty hydraulic manipulator, Mechatronics **9**(3) 235-270 (Apr 1999), 10A450
Fuzzy neural network position controller for ultrasonic motor drive using push-pull DC-DC converter, IEE Proc Control Theory Appl **146**(1) 99-107 (Jan 1999), 10T463
H_∞ control of a flexible gantry robot arm using smart actuators, Mechatronics **9**(3) 271-286 (Apr 1999), 10A466
Milling cutter breakage detection by the discrete wavelet transform, Mechatronics **9**(3) 225-234 (Apr 1999), 10T467
Monitoring of electromechanical actuator by means of electric measurements (French), Rev Francaise Mec **0**(1) 9-12 (Mar 1999), 10A468
Vibro-acoustic signature comparison and time-warping correction with multiscale correlation, Rev Francaise Mec **0**(1) 27-33 (Mar 1999), 10A469
Hybrid fuzzy P + ID control manipulators under uncertainty, Mechatronics **9**(3) 301-315 (Apr 1999), 10A488
Method for determining torque saturation by use of a mathematical model for accurate contour control of mechatronic servo systems (Japanese), J Japan Soc Precision Eng **65**(4) 565-569 (Apr 1999), 11A401
Optimal design of a vibration isolation mount using physical programming, J Dyn Syst Meas Control **121**(2) 171-178 (Jun 1999), 12A175
Effect of actuator saturation on the performance of PD-controlled servo systems, Mechatronics **9**(5) 497-511 (Aug 1999), 12A397
Precise, fault-tolerant pointing using a Stewart platform, IEEE/ASME Trans Mechatronics **4**(1) 91-95 (Mar 1999), 12T423

Robotic interception of moving objects in industrial settings: Strategy development and experiment, IEEE/ASME Trans Mechatronics 3(3) 225-239 (Sep 1998), 12A424
Motion control in an electric vehicle with four independently driven in-wheel motors, IEEE/ASME Trans Mechatronics 4(1) 9-16 (Mar 1999), 12A429
Multi-objective control synthesis: An application to 4WS passenger vehicles, Mechatronics 9(4) 363-390 (Jun 1999), 12A430
Self-tuning turbine generator control for power plant, Mechatronics 9(5) 513-537 (Aug 1999), 12A435
Modeling of piezo actuator's nonlinear and frequency dependent dynamics, Mechatronics 9(4) 391-410 (Jun 1999), 12A443
Oscillation, instability and control of stepper motors, Nonlinear Dyn 18(4) 383-404 (Apr 1999), 12A444
Design techniques for spindle motors in data-storage devices, J Info Storage Processing Syst 1(1) 105-114 (Jan 1999), 12A448
Free and forced vibrations of a rotating disk pack and spindle motor system with hydrodynamic bearings, J Info Storage Processing Syst 1(1) 45-58 (Jan 1999), 12A449
Increased disturbance rejection for hard disk drives by using accelerometers, J Info Storage Processing Syst 1(1) 95-103 (Jan 1999), 12A450
Microfabricated electrostatic actuators for hard disk drives, IEEE/ASME Trans Mechatronics 3(3) 175-183 (Sep 1998), 12A451
Fault prediction and compensation functions in a diagnostic knowledge-based system for hydraulic systems, J Intelligent & Robotic Syst 25(2) 153-165 (Jun 1999), 12A454
Analysis of the friction-induced self-excited vibration of a contact-recording head slider supported by a cantilever beam, J Info Storage Processing Syst 1(1) 59-65 (Jan 1999), 12A458
CMOS integrated pressure sensor optimization using electrical network simulator-FEM tool coupling, J Micromech Microeng 9(2) 109-112 (Jun 1999), 12T459
Comparison of sliding-mode and fuzzy neural network control for motor-toggle servomechanism, IEEE/ASME Trans Mechatronics 3(4) 302-318 (Dec 1998), 12A460
Customizable coherent servo demodulation for disk drives, IEEE/ASME Trans Mechatronics 3(3) 184-193 (Sep 1998), 12A461
Design of miniaturized displacement transducers for deep hole diameter measurement, Mechatronics 9(4) 317-327 (Jun 1999), 12A462
Distorted laser interferometric angle measurements of a disk drive pivot, IEEE/ASME Trans Mechatronics 3(4) 265-274 (Dec 1998), 12A463
Disturbance-observer design for magnetic hard-disk drive servo systems, J Info Storage Processing Syst 1(1) 75-85 (Jan 1999), 12A464
Disturbance-observer-based nonlinear friction compensation in table drive system, IEEE/ASME Trans Mechatronics 4(1) 3-8 (Mar 1999), 12A465
Dynamic contact sensing by flexible beam, IEEE/ASME Trans Mechatronics 3(4) 254-264 (Dec 1998), 12A466
Dynamics of suspension-slider-air-bearing systems: Experimental study, IEEE/ASME Trans Mechatronics 3(3) 210-217 (Sep 1998), 12A467
High-bandwidth high-accuracy rotary microactuators for magnetic hard disk drive tracking servos, IEEE/ASME Trans Mechatronics 3(3) 156-165 (Sep 1998), 12A468
Lateral position sensing system for automated vehicle following, IEEE/ASME Trans Mechatronics 3(3) 218-224 (Sep 1998), 12A469
Mechanical construction and computer architecture of the four-legged walking machine BISAM, IEEE/ASME Trans Mechatronics 4(1) 32-38 (Mar 1999), 12A470
Microcontroller-based sensor to measure serum column height, Mechatronics 9(4) 329-348 (Jun 1999), 12A471
Mode-switching control for motion control and its application to disk drives: Design of optimal mode-switching conditions, IEEE/ASME Trans Mechatronics 3(3) 202-209 (Sep 1998), 12T472
Modeling and analysis of electrostatic force for robot handling of fabric materials, IEEE/ASME Trans Mechatronics 4(1) 39-49 (Mar 1999), 12T473
Multimotor electronic line shafts for rotary offset printing presses: A revolution in printing machine techniques, IEEE/ASME Trans Mechatronics 4(1) 25-31 (Mar 1999), 12T474
Neural-network-based variable structure control of electrohydraulic servosystems subject to huge uncertainties without persistent excitation, IEEE/ASME Trans Mechatronics 4(1) 50-59 (Mar 1999), 12T475
Nonlinear adaptive control of direct-drive brushless DC motors and applications to robotic manipulators, IEEE/ASME Trans Mechatronics 4(1) 71-81 (Mar 1999), 12A476
Nonlinear control of mechatronic systems with permanent-magnet DC motors, Mechatronics 9(5) 539-552 (Aug 1999), 12T477
Novel omnidirectional image sensing system for assembling parts with arbitrary cross-sectional shapes, IEEE/ASME Trans Mechatronics 3(4) 275-292 (Dec 1998), 12A478
PC-based sliding-mode control applied to parallel-type double inverted pendulum system, Mechatronics 9(5) 553-564 (Aug 1999), 12A479
Pivot friction compensation using an accelerometer and a disturbance observer for hard disk drives, IEEE/ASME Trans Mechatronics 3(3) 194-201 (Sep 1998), 12A480
Recurve piezoelectric-strain-amplifying actuator architecture, IEEE/ASME Trans Mechatronics 3(4) 293-301 (Dec 1998), 12A481
Simplified modeling and dynamic analysis of a Law's relay actuator, Mechatronics 9(5) 463-475 (Aug 1999), 12T482
Throttle actuator control system for vehicle traction control, Mechatronics 9(5) 477-495 (Aug 1999), 12A483
Tribology of the interface for magnetic data recording on the image area of photographic film, J Info Storage Processing Syst 1(1) 67-74 (Jan 1999), 12T484
Two-dof control with robust feedback control for hard disk servo systems, IEEE/ASME Trans Mechatronics 4(1) 17-24 (Mar 1999), 12A485
Vibration acceleration control of an inverter-fed electrodynamic shaker, IEEE/ASME Trans Mechatronics 4(1) 60-70 (Mar 1999), 12T486
MEMS-based integrated head-actuator-slider for hard disk drives, IEEE/ASME Trans Mechatronics 3(3) 166-174 (Sep 1998), 12A491
Printed solenoid windings for miniature electromagnetic devices, J Micromech Microeng 9(2) 166-169 (Jun 1999), 12T495
Integration of an open architecture controller with a diamond turning machine, Mechatronics 9(4) 349-361 (Jun 1999), 12A730
Feed rate optimization and depth of cut control for productivity and part parallelism in grinding, Mechatronics 9(5) 447-462 (Aug 1999), 12A734
Stress model for multiobjective design optimization of a power electronic module, Mech Struct Machines 27(2) 163-183 (1999), 12A896

204P. Microelectromechanics, nanotechnology

Papers presented at the 8th Workshop on micromachining, micromechanics, and microsystems held at Southampton University, Great Britain, August 31 to September 2, 1997, J Micromech Microeng 8(2) 45-176 (Jun 1998), 1A446
Guidance and control algorithm for scent tracking micro-robotic vehicle swarms, J Dyn Syst Meas Control 120(3) 353-359 (Sep 1998), 1A456
Tribology Issues and Opportunities in MEMS (Kluwer, Netherlands, 1998) 2N17
Geometrical modulation-based interferometry for displacement sensing using optically coupled suspended waveguides, J Microelectromechanical Syst 7(3) 309-314 (Sep 1998), 2T542
Improved surface-micromachined hinges for fold-out structures, J Microelectromechanical Syst 7(3) 315-319 (Sep 1998), 2T543
Mechanical properties of thin films from the load deflection of long clamped plates, J Microelectromechanical Syst 7(3) 320-328 (Sep 1998), 2T544
Microelectromechanical filters for signal processing, J Microelectromechanical Syst 7(3) 286-294 (Sep 1998), 2T545
Microfabrication of capacitive ultrasonic transducers, J Microelectromechanical Syst 7(3) 295-302 (Sep 1998), 2T546
New silicon gas-flow sensor based on lift force, J Microelectromechanical Syst 7(3) 303-308 (Sep 1998), 2A547
Optimal design and noise consideration of micromachined vibrating rate gyroscope with modulated integrative differential optical sensing, J Microelectromechanical Syst 7(3) 329-338 (Sep 1998), 2A548
Sticking model of suspended polysilicon microstructure including residual stress gradient and postrelease temperature, J Microelectromechanical Syst 7(3) 339-344 (Sep 1998), 2T549
Buckling of polysilicon microbeams during sacrificial layer removal, J Micromech Microeng 8(3) 243-249 (Sep 1998), 3T438
Design, optimization and fabrication of surface micromachined pressure sensors, Mechatronics 8(5) 505-519 (Aug 1998), 3T439
Development of cascadable microdrives with muscle-like operating behavior, J Micromech Microeng 8(3) 222-229 (Sep 1998), 3T440
Development of comfort sensing system for human environment, Mechatronics 8(5) 459-466 (Aug 1998), 3T441
Development of surface micromachined magnetic actuators using electroplated permalloy, Mechatronics 8(5) 613-633 (Aug 1998), 3T442
Integration of sensors and GaAs electronic circuits on a single chip, Mechatronics 8(5) 441-458 (Aug 1998), 3T443
Large-force fluidic device micromachined in silicon, J Micromech Microeng 8(3) 195-199 (Sep 1998), 3T444
Microelectromechanical microrelays, Mechatronics 8(5) 535-547 (Aug 1998), 3T445
New small radius joints based on thermal shrinkage of polyimide in V-grooves for robust self-assembly 3D microstructures, J Micromech Microeng 8(3) 188-194 (Sep 1998), 3T446
Piezoelectric cantilever acoustic transducer, J Micromech Microeng 8(3) 230-238 (Sep 1998), 3T447
Positive displacement micropump for microdialysis, Mechatronics 8(5) 561-583 (Aug 1998), 3T448
Pressure transducer with a single-sided multilevel structure by maskless etching technology, Mechatronics 8(5) 585-593 (Aug 1998), 3T449
Residual stresses in micro-structures fabricated by the IC-compatible sacrificial layer technique, Mechatronics 8(5) 427-440 (Aug 1998), 3T450
Squeeze film damping effect on the dynamic response of a MEMS torsion mirror, J Micromech Microeng 8(3) 200-208 (Sep 1998), 3A451
TiNi shape-memory alloy and its applications for MEMS, J Micromech Microeng 8(3) 213-221 (Sep 1998), 3T452
Electrochemical etch stop engineering for bulk micromachining, Mechatronics 8(5) 595-612 (Aug 1998), 3T699
Contribution of radiation and viscous loss in a fluid loaded flexural plate wave sensor, J Sound Vib 217(1) 113-126 (Oct 1998), 4A426
Dynamics and fuzzy control of a levitated particle, Nonlinear Dyn 17(1) 61-76 (Sep 1998), 4A427
Micro-Electro-Mechanical Systems [MEMS] - 1998 (ASME, New York, 1998) 6N13
Advanced deep reactive ion etching: A versatile tool for microelectromechanical systems, J Micromech Microeng 8(4) 272-278 (Dec 1998), 6A432
Advanced LIGA technology for the integration of an electrostatically controlled bearing in a wobble micromotor, J Microelectromechanical Syst 7(4) 423-427 (Dec 1998), 6A433
Design of bulk micromachined suspensions, J Micromech Microeng 8(4) 263-271 (Dec 1998), 6A434
Development of a MEMS microvalve array for fluid flow control, J Microelectromechanical Syst 7(4) 395-403 (Dec 1998), 6A435
Development of magnetic materials and processing techniques applicable to integrated micromagnetic devices, J Micromech Microeng 8(4) 307-316 (Dec 1998), 6T436
Displacement sensing using geometrical modulation in reflection mode of coupled optical waveguides, J Micromech Microeng 8(4) 323-326 (Dec 1998), 6A437
Effects of post-deposition processes on polysilicon Young's modulus, J Micromech Microeng 8(4) 330-337 (Dec 1998), 6T438
Issues associated with the design, fabrication and testing of a crystalline silicon ring gyroscope with electromagnetic actuation and sensing, J Micromech Microeng 8(4) 284-292 (Dec 1998), 6A439
Microfabrication of linear translator tuning elements in submillimeter-wave integrated circuits, J Microelectromechanical Syst 7(4) 404-410 (Dec 1998), 6T440
Microprocessing at the fingertips, J Micromech Microeng 8(4) 251-262 (Dec 1998), 6A441
One-mask procedure for the fabrication of movable high-aspect-ratio 3D microstructures, J Micromech Microeng 8(4) 279-283 (Dec 1998), 6A442
Pneumatic air table realized by micro-EDM, J Microelectromechanical Syst 7(4) 380-386 (Dec 1998), 6A443
Pull-in study of an electrostatic torsion microactuator, J Microelectromechanical Syst 7(4) 373-379 (Dec 1998), 6A444
Resist dissolution rate and inclined-wall structures in deep x-ray lithography, J Micromech Microeng 8(4) 293-300 (Dec 1998), 6T445
Silicon nitride microclips for the kinematic location of optic fibers in silicon V-shaped grooves, J Micromech Microeng 8(4) 343-360 (Dec 1998), 6T446
Structural and mechanical properties of polycrystalline silicon germanium for micromachining applications, J Microelectromechanical Syst 7(4) 365-372 (Dec 1998), 6T447
Injection-molded fiber ribbon connectors for parallel optical links fabricated by the LIGA technique, J Micromech Microeng 8(4) 301-306 (Dec 1998), 6T833
Transient liquid crystal thermometry of microfabricated PCR vessel arrays, J Microelectromechanical Syst 7(4) 345-355 (Dec 1998), 6T839
Precise automated control of fluid volumes inside glass capillaries, J Microelectromechanical Syst 8(1) 71-77 (Mar 1999), 8A434
Improved operation of micromechanical comb-drive actuators through the use of a new angled comb finger design, J Intelligent Mat Syst Struct 9(4) 283-290 (Apr 1998), 8A444
Magnetic actuation of hinged microstructures, J Microelectromechanical Syst 8(1) 10-17 (Mar 1999), 8T445
Magnetic microactuators based on polymer magnets, J Microelectromechanical Syst 8(1) 2-9 (Mar 1999), 8T446
Micromachined flow shear-stress sensor based on thermal transfer principles, J Microelectromechanical Syst 8(1) 90-99 (Mar 1999), 8T447
Thermally actuated microprobes for a new wafer probe card, J Microelectromechanical Syst 8(1) 43-49 (Mar 1999), 8T448
Torque evaluation of a LIGA fabricated electrostatic micromotor, J Microelectromechanical Syst 8(1) 115-123 (Mar 1999), 8A449
Theory of thin films of martensitic materials with applications to microactuators, J Mech Phys Solids 47(3) 531-576 (Mar 1999), 8A625
Fabrication and characterization of surface micromachined capacitive ultrasonic immersion transducers, J Microelectromechanical Syst 8(1) 100-114 (Mar 1999), 8T724
Silicon-processed microneedles, J Microelectromechanical Syst 8(1) 78-84 (Mar 1999), 8A727
Analysis and design of polysilicon thermal flexure actuator, J Micromech Microeng 9(1) 64-70 (Mar 1999), 9T486
Integrated micro focusing and tracking sensor, J Micromech Microeng 9(1) 71-77 (Mar 1999), 9T487
Low cost micromachined mirrors for display systems, J Micromech Microeng 9(1) 85-88 (Mar 1999), 9T488
Mechanical behavior and sound generation efficiency of prestressed, elastically clamped and thermomechanically driven thin film sandwiches, J Micromech Microeng 9(1) 19-29 (Mar 1999), 9T489
Micromachined double backplate differential capacitive microphone, J Micromech Microeng 9(1) 30-33 (Mar 1999), 9T490
Micromechanical RF filters excited by the Lorentz force, J Micromech Microeng 9(1) 78-84 (Mar 1999), 9T491
Monolithic variable inductor network using microrelays with combined thermal and electrostatic actuation, J Micromech Microeng 9(1) 45-50 (Mar 1999), 9T492
Numerical design study of the valveless diffuser pump using a lumped-mass model, J Micromech Microeng 9(1) 34-44 (Mar 1999), 9T493
Rheology of injection molding suspension prepared from nanosized plasma processed AIN powder, Appl Mech Eng 4(S) 375-380 (1999), 11T402
Bi-directional fast flow sensor with a large dynamic range, J Micromech Microeng 9(2) 186-189 (Jun 1999), 12T436
Fabrication and characterization of a piezoelectric accelerometer, J Micromech Microeng 9(2) 123-126 (Jun 1999), 12T442
Tantalum oxide thin films as protective coatings for sensors, J Micromech Microeng 9(2) 113-118 (Jun 1999), 12T446
Microfabricated electrostatic actuators for hard disk drives, IEEE/ASME Trans Mechatronics 3(3) 175-183 (Sep 1998), 12A451
CMOS integrated pressure sensor optimization using electrical network simulator-FEM tool coupling, J Micromech Microeng 9(2) 109-112 (Jun 1999), 12T459
Modeling and analysis of electrostatic force for robot handling of fabric materials, IEEE/ASME Trans Mechatronics 4(1) 39-49 (Mar 1999), 12T473
Comparison of lateral and vertical switches for application as microrelays, J Micromech Microeng 9(2) 146-150 (Jun 1999), 12T487
Decreasing the optical path length in an optoelectronic module using silicon micromachining, J Micromech Microeng 9(2) 127-129 (Jun 1999), 12T488
Designing, simulation and realization of in-plane operating microvalves using new etching techniques, J Micromech Microeng 9(2) 194-198 (Jun 1999), 12T489
High aspect ratio UV photolithography for electroplated structures, J Micromech Microeng 9(2) 105-108 (Jun 1999), 12T490
MEMS-based integrated head-actuator-slider for hard disk drives, IEEE/ASME Trans Mechatronics 3(3) 166-174 (Sep 1998), 12A491
Micro-coil with movable core for application in an inductive displacement sensor, J Micromech Microeng 9(2) 119-122 (Jun 1999), 12T492
Optical devices based on fluidic controlled two-mode interference, J Micromech Microeng 9(2) 203-205 (Jun 1999), 12T493
Optical fiber switches based on full wafer silicon micromachining, J Micromech Microeng 9(2) 151-155 (Jun 1999), 12T494
Printed solenoid windings for miniature electromagnetic devices, J Micromech Microeng 9(2) 166-169 (Jun 1999), 12T495
Sensor, sensor interfacing and front-end data management for stand-alone microsystems, J Micromech Microeng 9(2) R1-R7 (Jun 1999), 12T496
Silver-based reflective coatings for micromachined optical filters, J Micromech Microeng 9(2) 162-165 (Jun 1999), 12T497
Technology and applications of micromachined adaptive mirrors, J Micromech Microeng 9(2) R8-R19 (Jun 1999), 12T498
Production of seismic mass suspensions in silicon by electro-discharge machining, J Micromech Microeng 9(2) 206-210 (Jun 1999), 12T754
Repeatability aspects in surface micromachining: Investigations on polycrystalline silicon films, J Micromech Microeng 9(2) 130-134 (Jun 1999), 12T755

204R. Fault diagnosis, failure detection, and isolation

Evaluation of an object state on the basis of multipoint vibration measurement, Machine Dyn Prob **19** 7-17 (1998), 1T447
Fault classification of fluid power systems using a dynamics feature extraction technique and neural networks, J Syst Control Eng **212**(I2) 87-97 (1998), 1A448
Intelligent joint fault diagnosis of industrial robots, Mech Syst Signal Processing **12**(4) 571-588 (Jul 1998), 1A449
Nonlinear resonance as a diagnostic symptom, Machine Dyn Prob **19** 19-27 (1998), 1A450
Remarks on diagnosis-oriented modeling of power unit gears, Machine Dyn Prob **19** 75-86 (1998), 1T451
Robust stabilization of linear systems in the presence of Gaussian perturbation of parameters, Optimal Control Appl Methods **19**(4) 271-286 (Jul-Aug 1998), 4T347
Application of LTR design in fault detection, Optimal Control Appl Methods **19**(4) 215-225 (Jul-Aug 1998), 4A428
Fatigue life prediction of a railway bogie under dynamic loads through simulation, Vehicle Syst Dyn **29**(6) 385-402 (Jun 1998), 4A429
Fuzzy clustering for complicated system diagnosis (Chinese), J Shanghai Jiaotong Univ **32**(6) 61-64 (Jun 1998), 4A430
Multi-symptom-domains based fault consensus diagnosis, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 14-19 (Jun 1998), 4A431
New fault diagnosis expert system (Chinese), J Shanghai Jiaotong Univ **32**(6) 137-139 (Jun 1998), 4A432
Synthetic intelligent system for failure diagnosis (Chinese), J Shanghai Jiaotong Univ **32**(6) 14-18 (Jun 1998), 4A433
Towards a fault tolerant cell controller for flexible assembly systems: An approach using colour Petri-Nets, Mechatronics **8**(7) 747-764 (Oct 1998), 4A506
Application of combination of neural network and fuzzy fault diagnosis expert system (Chinese), J Beijing IT **18**(1) 81-86 (Feb 1998), 5A392
Fuzzy logic and artificial neural network applied in evaluating malfunction-model of thermodynamic system (Chinese), J Xi'an Jiaotong Univ **32**(11) 53-57 (1998), 5A393
Presentation and generation of fault diagnosis knowledge for mechano-electronic systems (Chinese), J Beijing IT **18**(4) 420-425 (Aug 1998), 5A394
Research on sampling methods of fuze fault tree digital simulation (Chinese), J Beijing IT **18**(2) 195-198 (Apr 1998), 5A395
Research on the diagnosis system of wear faults for diesel engines (Chinese), J Huazhong Univ Sci Tech **26**(11) 59-61 (Nov 1998), 5A396
Study and development of fault diagnosis expert system of FMS (Chinese), J Beijing IT **18**(3) 290-295 (Jun 1998), 5A397
Trend analysis of machinery working condition and its application in water flooding set (Chinese), J Beijing IT **18**(4) 441-443 (Aug 1998), 5A398
Damage detection of suspension bridges, J Tsinghua Univ Sci Tech **38**(12) 44-47 (Dec 1998), 6A448
Distributed diagnosis of network management systems (Chinese), J Shanghai Jiaotong Univ **32**(10) 95-97 (Oct 1998), 6A449
Forecasting of the feature-based machine state (Chinese), J Huazhong Univ Sci Tech **26**(10) 32-34 (Oct 1998), 6A450
Generalized fault tree knowledge representation method for power plant boiler fault diagnostic systems (Chinese), J Tsinghua Univ Sci Tech **38**(7) 74-77 (Jul 1998), 6A451
Objective machinery fault diagnosis using fuzzy logic, Mech Syst Signal Processing **12**(6) 855-862 (Nov 1998), 6A452
Research of a data acquisition system of vibration signal for large-scale rotating machine (Chinese), J Tsinghua Univ Sci Tech **38**(6) 111-114 (Jun 1998), 6A453
Study on method of knowledge acquisition in malfunction diagnosis (Chinese), J Tsinghua Univ Sci Tech **38**(7) 102-106 (Jul 1998), 6A454
Adaptive prognostics for rolling element bearing condition, Mech Syst Signal Processing **13**(1) 103-113 (Jan 1999), 7A399
Application of phase to condition monitoring and failure diagnosis (Chinese), J Dalian Univ Tech **39**(1) 108-113 (Jan 1999), 7A400
H_∞ bounded fault detection filter, J Guidance Control Dyn **22**(1) 129-138 (Jan-Feb 1999), 7A401
Nonlinear coupling signature extracting in fault diagnosis (Chinese), J Xi'an Jiaotong Univ **33**(1) 88-92 (1999), 7A402
Practical view of redundancy management application and theory, J Guidance Control Dyn **22**(1) 12-21 (Jan-Feb 1999), 7T403
Reliability analysis about a system that consists of two dependent parallel components (Chinese), J Dalian Univ Tech **39**(1) 1-5 (Jan 1999), 7A404
Risk assessment of dynamic process (Chinese), J Shanghai Jiaotong Univ **32**(11) 17-20 (Nov 1998), 7A405
Selection of informative wavelets for machinery diagnosis, Mech Syst Signal Processing **13**(1) 145-162 (Jan 1999), 7T925
Windshear recovery using fuzzy logic guidance and control, J Guidance Control Dyn **22**(1) 178-180 (Jan-Feb 1999), 7T1138
Diagnostic analysis of rotating machinery using instantaneous purified orbit (Chinese), J Xi'an Jiaotong Univ **33**(3) 104-107 (1999), 8A450
Method of rotor orbit purification based on wavelet packets (Chinese), J Huazhong Univ Sci Tech **26**(12) 8-9 (Dec 1998), 8A451
Network fault detecting by the intelligent agent based on adaptive learning algorithm (Chinese), J Huazhong Univ Sci Tech **26**(12) 68-70 (Dec 1998), 8A452
Status monitoring in flexible manipulators, IEE Proc Control Theory Appl **145**(6) 537-550 (Nov 1998), 8A453
Detection of self-aligning roller bearing fault by asynchronous adaptive noise cancelling technology, JSME Int J Ser C **42**(1) 33-43 (Mar 1999), 9A494
Theory and method of faults diagnosis based on multi-index fusing (Chinese), J Vib Eng **12**(1) 55-63 (Mar 1999), 9A495
Application of fuzzy set theory in fault tree analysis, Chinese J Mech Eng **11**(4) 326-332 (Dec 1998), 10A470
Approach to fault on-line detection and diagnosis based on neural networks for robot in FMS, Chinese J Mech Eng **11**(2) 115-121 (Jun 1998), 10A471
Helicopter gearbox fault detection: A neural network based approach, J Vib Acoust **121**(3) 265-272 (Jul 1999), 10A472
Mechanism analysis and mathematical description of mechanical abrupt faults, Chinese J Mech Eng **12**(1) 56-62 (Mar 1999), 10A473
Prediction of machine deterioration using vibration based fault trends and recurrent neural networks, J Vib Acoust **121**(3) 355-362 (Jul 1999), 10A474
Study on modular fault tree analysis technique with cut sets matrix method, Chinese J Mech Eng **11**(2) 81-88 (Jun 1998), 10A475
Application of behavior knowledge to fault diagnosis in modern manufacturing equipment (Chinese), J Huazhong Univ Sci Tech **27**(5) 71-73 (May 1999), 11A403
Automation in fault detection using neural network and model updating, J Brazilian Soc Mech Sci **21**(1) 99-108 (Mar 1999), 11A404
Diagnosis of analog dynamic multi-phenomena systems, Bull Polish Acad Sci Tech Sci **46**(4) 487-499 (1998), 11A405
Fuzzy ART and its application to fault diagnosis (Chinese), J Xi'an Jiaotong Univ **33**(5) 88-92 (1999), 11A406
Study of parameter monitoring in stationary mechanical systems, J Brazilian Soc Mech Sci **21**(1) 123-132 (Mar 1999), 11A407
Pattern recognition and diagnosis of faults in electrical machines (Chinese), J Tsinghua Univ Sci Tech **39**(3) 72-74 (Mar 1999), 12A367
Precise, fault-tolerant pointing using a Stewart platform, IEEE/ASME Trans Mechatronics **4**(1) 91-95 (Mar 1999), 12T423
Fault diagnosis of power electronic circuits using artificial neural networks (Chinese), J Tsinghua Univ Sci Tech **39**(3) 19-22 (Mar 1999), 12A499
Fault diagnosis of power transformer using neural network of decision tree (Chinese), J Xi'an Jiaotong Univ **33**(6) 11-16 (1999), 12A500
Monitoring and diagnosis of multiple incipient faults using fault tree induction, IEE Proc Control Theory Appl **146**(2) 204-212 (Mar 1999), 12T501
Tabu search approach to fault diagnosis in power systems using fuzzy abductive inference (Chinese), J Tsinghua Univ Sci Tech **39**(3) 56-60 (Mar 1999), 12A502
Worst-case evaluation method for dynamic systems, J Dyn Syst Meas Control **121**(2) 191-199 (Jun 1999), 12A503
Dynamic model for condition monitoring of a high-power CO_2 industrial laser, J Dyn Syst Meas Control **121**(2) 157-164 (Jun 1999), 12A1279

204T. Other applications

Controlled focused sonic booms from maneuvering aircraft, J Acoust Soc Am **104**(1) 112-121 (Jul 1998), 1A452
Standard based framework for the development of manufacturing control systems, Int J Comput Integrated Manuf **11**(5) 401-415 (Sep-Oct 1998), 1T511
Papers from a one day seminar - Smart materials and systems: Applications and recent developments, held at the IMechE Headquarters on April 10, 1997, J Syst Control Eng **212**(I3) 149-238 (1998), 1T973
Criteria for the design of manipulator arms for a high stiffness-to-weight ratio, J Manuf Syst **17**(3) 209-220 (1998), 1A1046
Optimal and robust control and estimation of linear paths to transition, J Fluid Mech **365** 305-349 (Jun 1998), 1A1158
Fuzzy neural systems for controlling sound localization in stereophonic reproduction, IEE Proc Control Theory Appl **145**(4) 393-401 (Jul 1998), 3A321
Nonlinear generalized predictive control applied to muscle relaxant anaesthesia, Int J Control **71**(2) 239-257 (Sep 1998), 3T399
Modeling and control of the in-situ thermoplastic composite tape-laying process, J Dyn Syst Meas Control **120**(4) 507-515 (Dec 1998), 3A424
Piezoelectric cantilever acoustic transducer, J Micromech Microeng **8**(3) 230-238 (Sep 1998), 3T447
TiNi shape-memory alloy and its applications for MEMS, J Micromech Microeng **8**(3) 213-221 (Sep 1998), 3T452
Problem of regulation of the cardiovascular system as a bilinear control problem, Math Methods Appl Sci **21**(14) 1365-1377 (Sep 1998), 3A1549
Fast identification of parameters in optical systems, J Optim Theory Appl **99**(1) 73-101 (Oct 1998), 4T354
Active control of shallow, slack cable using the parametric control of end tension, Nonlinear Dyn **17**(1) 77-94 (Sep 1998), 4T434
DUMASS: A surgical assist robot for minimal access surgery, Mechatronics **8**(7) 793-803 (Oct 1998), 4A463
Brakes and clutches using ER fluids, Mechatronics **8**(7) 719-726 (Oct 1998), 4A960
Portable capacitance snow sounding instrument, Cold Regions Sci Tech **28**(2) 73-81 (Oct 1998), 5A1542
Adaptive neural network feedback control of a passive line-of-sight stabilization system, Mechatronics **8**(8) 887-903 (Dec 1998), 6A426
Research on steady feed rate of SSV (Chinese), J Shanghai Jiaotong Univ **32**(10) 102-104 (Oct 1998), 6A455
Control of rolled strips thickness using fuzzy logic (Spanish), J Brazilian Soc Mech Sci **20**(4) 645-655 (Dec 1998), 7A341
New design project of the line feed structure for large spherical radio telescope and its nonlinear dynamic analysis, Mechatronics **9**(1) 53-64 (Feb 1999), 7A396
Towards autonomous robotic servicing: Using an integrated hand-arm-eye system for manipulating unknown objects, Robotics Autonomous Syst **26**(1) 23-42 (Jan 1999), 7A414
Application of position-force control to scale calibration, Mechatronics **9**(2) 207-224 (Mar 1999), 8A454
Friction compensation using adaptive nonlinear control with persistent excitation, Int J Control **72**(5) 457-479 (Mar 1999), 8A455
Nonlinear optimal control approach to central sewer network flow control, Int J Control **72**(5) 418-429 (Mar 1999), 8A456
Boundary control of Kirchhoff's nonlinear string, Int J Control **72**(6) 560-563 (Apr 1999), 9A496
Control scheme for a five-axis machine tool based on coordinate transformation, JSME Int J Ser C **40**(3) 477-483 (Sep 1997), 9A497
Nonlinear black-box identification of distillation column models: Design variable selection for model performance enhancement, Appl Math Comp Sci **8**(4) 793-813 (1998), 10A406
Exact feedback linearization of a fifth-order model of synchronous generators, IEE Proc Control Theory Appl **146**(1) 53-57 (Jan 1999), 10T476
Neural network signal interpretation for optimization of chromatographic protein purifications, Appl Math Comp Sci **8**(4) 865-886 (1998), 10T477
System modeling using neural network parameter functions, Appl Math Comp Sci **8**(3) 887-898 (1998), 10A478
Multi-agent systems applications, Robotics Autonomous Syst **27**(1-2) 3-106 (Apr 1999), 10A495
Design and robustness analysis of decentralized constant volume-control for open-channels, Appl Math Model **23**(6) 479-500 (Jun 1999), 11A408
Improved properties of polymers under hydrostatic pressure, Mat Manuf Processes **14**(3) 427-433 (1999), 11T432
Macroeconomy as a network of money-flow transfer functions, Model Ident Control **19**(4) 207-223 (Oct 1998), 11A452
Electron beam technologies for preparation of polymeric materials used for waste water treatment, agriculture, and medicine, Mat Manuf Processes **14**(3) 347-364 (1999), 11T722
Research of fuzzy controller development system for thermal systems (Chinese), J Tsinghua Univ Sci Tech **39**(3) 115-117 (Mar 1999), 12A373
Approach to control input shaping with application to coordinate measuring machines, J Dyn Syst Meas Control **121**(2) 242-247 (Jun 1999), 12A426
New approach for selection of optimal process parameters in abrasive water jet cutting, Mat Manuf Processes **14**(4) 581-600 (1999), 12A434
Distorted laser interferometric angle measurements of a disk drive pivot, IEEE/ASME Trans Mechatronics **3**(4) 265-274 (Dec 1998), 12A463
Microcontroller-based sensor to measure serum column height, Mechatronics **9**(4) 329-348 (Jun 1999), 12A471
Multimotor electronic line shafts for rotary offset printing presses: A revolution in printing machine techniques, IEEE/ASME Trans Mechatronics **4**(1) 25-31 (Mar 1999), 12T474
Application of optimal control theory to the design of theoretical schedules of anticancer drugs, Appl Math Comp Sci **9**(2) 387-399 (1999), 12T504
Stability and accuracy of steady-state motions in loaded copying system: Analytical approach, Comput Assisted Mech Eng Sci **6**(1) 107-113 (1999), 12A505

204Z. Experimental techniques

Optimal sensor placement via Gaussian quadrature, Appl Math Comput **97**(1) 71-97 (Dec 1998), 2A550
Nevanlinna-Pick interpolation problem with multiple points for bounded real matrices: The nonsingular case, Bull Polish Acad Sci Tech Sci **46**(3) 331-342 (1998), 11T409
Sensor, sensor interfacing and front-end data management for stand-alone microsystems, J Micromech Microeng **9**(2) R1-R7 (Jun 1999), 12T496
Cellular automata-based noise generator, J Franklin Inst **336**(5) 799-808 (Jul 1999), 12A506

206. ROBOTICS

Cartesian control of redundant flexible-joint manipulators, Int J Robotics Autom **13**(3) 76-86 (1998), 4A441

206B. End effectors

Real-time grasping force control in coordination of multi-fingered robot hands (Chinese), J Shanghai Jiaotong Univ **32**(5) 34-38 (May 1998), 1A453
Variational method of finding of fininte deformations of hyperelastic plan membranes, Prikl Mekh (Appl Mech) **34**(2) 43-49 (1998), 1A454
Optimal grasping formulations that result in high quality and robust configurations, J Robotic Syst **15**(12) 713-729 (Dec 1998), 4A435
Passive compliant wrist for chamferless peg-in-hole assembly operation from vertical and horizontal directions, Proc Inst Mech Eng J Eng Manuf **212**(B6) 473-478 (1998), 4A436
Study of the passive compliance of parallel manipulators, Mech Machine Theory **34**(3) 373-389 (Apr 1999), 4A437
Development of a parallel wire mechanism for measuring position and orientation of a robot end-effector, Mechatronics **8**(8) 845-861 (Dec 1998), 6A428
Haptic perception of shape and hollowness of deformable objects using the anthrobot-III robot hand, J Robotic Syst **16**(1) 9-24 (Jan 1999), 6A456
Coordination and control of multi-fingered robot hands with rolling and sliding contacts, J Intelligent & Robotic Syst **24**(2) 125-149 (Feb 1999), 7A412
Plan-N-Scan: A robotic system for collision-free autonomous exploration and workspace mapping, J Intelligent & Robotic Syst **24**(3) 207-234 (Mar 1999), 8A459
Dynamic end-effector trajectory control for flexible micro-macro manipulators using an ideal manifold, JSME Int J Ser C **41**(2) 269-277 (Jun 1998), 9A498
Estimation of object gravity and wrench exerted on object using multifingered hand with force-torque sensors, Chinese J Mech Eng **11**(2) 102-108 (Jun 1998), 10A479
New approaches for computing dynamic load-carrying capacity of multiple cooperating robotic manipulators, Chinese J Mech Eng **11**(2) 146-151 (Jun 1998), 10A480
Research on behaviors of electrorheological fluid-based semiactive robot fingertips, Chinese J Mech Eng **11**(2) 96-101 (Jun 1998), 10A481
Modeling and analysis of electrostatic force for robot handling of fabric materials, IEEE/ASME Trans Mechatronics **4**(1) 39-49 (Mar 1999), 12T473
Kinematics and the full minimal dynamic model of a 6-dof parallel robot manipulator, Nonlinear Dyn **18**(4) 339-356 (Apr 1999), 12T507
Stability and modal control of an object grasped by a multifingered robot hand, Z Angew Math Mech **79**(7) 473-479 (1999), 12A508

206C. Actuators (prime movers)

Composite adaptive SMC of nonlinear base isolated buildings with actuator dynamics, Appl Math Comp Sci **8**(1) 183-197 (1998), 2A551
Spreadability and spray actuators, Appl Math Comp Sci **8**(2) 367-379 (1998), 2A552

Fabrication and transformation characteristics of reversible shape memory alloy thin film actuators, Int J Japan Soc Precision Eng **32**(2) 110-115 (Jun 1998), 2A940
Inertial stick-slip actuator for active control of shape and vibration, J Intelligent Mat Syst Struct **8**(12) 1001-1011 (Dec 1997), 3A127
Composing multi-pole-model block schemes for a load-sensing hydraulic drive, Proc Estonian Acad Sci Eng **4**(3) 209-224 (Sep 1998), 3A453
Review on the modeling of piezoelectric sensors and actuators incorporated in intelligent structures, J Intelligent Mat Syst Struct **9**(1) 3-19 (Jan 1998), 4A418
Research on miniature robot used in thin tubes actuated by electromagnetic force (Chinese), J Shanghai Jiaotong Univ **32**(8) 122-125 (Aug 1998), 4A438
Adaptive vibration control by using magnetostrictive actuator, J Intelligent Mat Syst Struct **9**(2) 87-94 (Feb 1998), 6A120
Stress stiffening effects in laminated beams with piezoelectric actuators, J Intelligent Mat Syst Struct **9**(2) 137-145 (Feb 1998), 6A721
Design of a high efficiency, large stroke, electromechanical actuator, Smart Mat Struct **8**(1) 13-30 (Feb 1999), 8A443
Improved operation of micromechanical comb-drive actuators through the use of a new angled comb finger design, J Intelligent Mat Syst Struct **9**(4) 283-290 (Apr 1998), 8A444
Improvement of dynamic characteristics of shape memory alloy actuator (Japanese), J Japan Soc Precision Eng **65**(1) 95-99 (Jan 1999), 8A457
Feedback control using shape memory alloy actuators, J Intelligent Mat Syst Struct **9**(4) 242-250 (Apr 1998), 8A849
Development of smooth impact drive mechanism - Proposal of driving mechanism and basic performance (Japanese), J Japan Soc Precision Eng **65**(1) 111-115 (Jan 1999), 8A948
Active magnetic anti-whirl control of rotors, Machine Dyn Prob **20** 193-207 (1998), 9T499
Mechanical microactuators with photostrictive control, JSME Int J Ser C **41**(4) 886-892 (Dec 1998), 9A500
Theory and numerical simulation of nonlinear control of arches with piezoelectric distributed actuators, Machine Dyn Prob **20** 73-90 (1998), 9A501
Monitoring of electromechanical actuator by means of electric measurements (French), Rev Francaise Mec **0**(1) 9-12 (Mar 1999), 10A468
Implicit daisy-chaining property of constrained predictive control, Appl Math Comp Sci **8**(4) 695-711 (1998), 10T482
Optimal design of micro-actuators based on SMA wires, Smart Mat Struct **8**(2) 197-203 (Apr 1999), 10A483
Dynamics of a pneumatic system: Modeling, simulation and experiments, Int J Robotics Autom **14**(1) 39-43 (1999), 11A410
Robust nonlinear control and torque ripple reduction for permanent magnet stepper motors, IEE Proc Control Theory Appl **146**(2) 186-196 (Mar 1999), 12A445
Bio-mimetic principles in actuator design for a humanoid robot, European J Mech Eng **44**(2) 75-80 (1999), 12A509
Theoretical and experimental study of a smart hinge-beam based on shape memory alloy wire actuators, J Intelligent & Robotic Syst **25**(2) 167-182 (Jun 1999), 12A510

206D. Locomotion (mobility)

Attitude and position control for non-rigid walking machines, Mech Machine Theory **33**(7) 1013-1029 (Oct 1998), 1A455
Guidance and control algorithm for scent tracking micro-robotic vehicle swarms, J Dyn Syst Meas Control **120**(3) 353-359 (Sep 1998), 1A456
Time-optimal control of redundant manipulators, Appl Math Comp Sci **7**(2) 333-341 (1997), 2A501
Adaptive stabilization of mobile manipulators, J Robotic Syst **15**(9) 511-523 (Sep 1998), 2A553
Fuzzy control of robotic manipulators, Appl Math Comp Sci **7**(3) 611-637 (1997), 2A554
Motion generation in Cartesian space for industrial robots with actuator limitations, Appl Math Comp Sci **7**(2) 459-472 (1997), 2A555
Two-way recursive decomposition of the free-flying robot mass matrix, Appl Math Comp Sci **7**(2) 413-431 (1997), 2A556
Developing AGVS Petri net control models from flowpath nets, J Manuf Syst **17**(4) 237-250 (1998), 2A582
Application platform for the development and experimental validation of mobile robots for health care purposes, J Intelligent & Robotic Syst **22**(3-4) 331-350 (Jul 1998), 3A454
Dynamic effects in statically stable walking machines, J Intelligent & Robotic Syst **23**(1) 71-85 (Sep 1998), 3A455
Experimental study of formation alignment of multiple autonomous air-levitated vehicles with rule-based controls, J Robotic Syst **15**(10) 559-580 (Oct 1998), 3A456
Intelligent Robotics Systems - SIRS'97, Robotics Autonomous Syst **23**(4) 205-309 (Jul 1998), 3A457
Straight-line motion control for autonomous land vehicles using 2D image processing techniques, J Robotic Syst **15**(10) 537-549 (Oct 1998), 3A458
Artificial force reflection control for teleoperated mobile robots, Mechatronics **8**(6) 707-717 (Sep 1998), 3T464
Architectural concepts of a semi-autonomous wheelchair, J Intelligent & Robotic Syst **22**(3-4) 233-253 (Jul 1998), 3A1569
Design issues of a semi-autonomous robotic assistant for the health care environment, J Intelligent & Robotic Syst **22**(3-4) 191-209 (Jul 1998), 3A1571
Increasing intelligence in autonomous wheelchairs, J Intelligent & Robotic Syst **22**(3-4) 211-232 (Jul 1998), 3A1573
Integration strategies using a modular architecture for mobile robots in the rehabilitation field, J Intelligent & Robotic Syst **22**(3-4) 181-190 (Jul 1998), 3A1574
Man-machine cooperation for the control of an intelligent powered wheelchair, J Intelligent & Robotic Syst **22**(3-4) 269-287 (Jul 1998), 3A1575
Self-localization in the "SENARIO" autonomous wheelchair, J Intelligent & Robotic Syst **22**(3-4) 255-267 (Jul 1998), 3A1579
Research on miniature robot used in thin tubes actuated by electromagnetic force (Chinese), J Shanghai Jiaotong Univ **32**(8) 122-125 (Aug 1998), 4A438
Modeling of multiple mobile manipulators handling a common deformable object, J Robotic Syst **15**(11) 599-623 (Nov 1998), 4A439
Scientific methods in mobile robotics, Robotics Autonomous Syst **24**(1-2) 5-83 (Aug 1998), 4A440
Analyses of vision-based lateral control for automated highway system, Vehicle Syst Dyn **30**(5) 345-373 (Nov 1998), 5A379
Method for sonar based recognition of walking people, Robotics Autonomous Syst **25**(1-2) 117-126 (Oct 1998), 6T420
Genetic learning of fuzzy reactive controllers, Robotics Autonomous Syst **25**(1-2) 33-41 (Oct 1998), 6A423
ARK project: Autonomous mobile robots for known industrial environments, Robotics Autonomous Syst **25**(1-2) 83-104 (Oct 1998), 6T457
Autonomous mobile robots, Robotics Autonomous Syst **25**(3-4) 137-262 (Nov 1998), 6A458
Dynamic analysis tool for legged robots, Multibody Syst Dyn **2**(4) 369-391 (Dec 1998), 6A459
Evolution of a world model for a miniature robot using genetic programming, Robotics Autonomous Syst **25**(1-2) 105-116 (Oct 1998), 6T460
Fast mobile robot obstacle detection using simultaneous firing of sonar ring sensors, Int J Japan Soc Precision Eng **32**(3) 207-212 (Sep 1998), 6A461
Frequency domain modeling of aided GPS for vehicle navigation systems, Robotics Autonomous Syst **25**(1-2) 73-82 (Oct 1998), 6T462
Group shape generating model movement model for cooperative robots system, Mechatronics **8**(8) 905-925 (Dec 1998), 6T463
NTUA snake: Design, planar kinematics, and motion planning, J Robotic Syst **16**(1) 37-72 (Jan 1999), 6A464
Robust landmark-based system for vehicle location using low-bandwidth vision, Robotics Autonomous Syst **25**(1-2) 19-32 (Oct 1998), 6T469
Mixture of automatically- and manually-controlled vehicles in intelligent transport systems, J Intelligent & Robotic Syst **24**(2) 175-205 (Feb 1999), 7A382
Behavior-based artificial intelligence in miniature mobile robot, Mechatronics **9**(2) 185-206 (Mar 1999), 8A442
Framework for large-force task planning of mobile and redundant manipulators, J Robotic Syst **16**(3) 151-162 (Mar 1999), 8A458
Plan-N-Scan: A robotic system for collision-free autonomous exploration and workspace mapping, J Intelligent & Robotic Syst **24**(3) 207-234 (Mar 1999), 8A459
Robot dynamic modeling using a power flow approach with application to biped locomotion, Autonomous Robots **6**(1) 39-52 (Jan 1999), 8A460
Special Issue: Field and Service Robotics, Robotics Autonomous Syst **26**(2-3) 81-232 (Feb 1999), 8A461
AV-shell,an environment for autonomous robotic applications using active vision, Autonomous Robots **6**(1) 21-38 (Jan 1999), 8A472
Learning method for multi-controller of robot behavior, JSME Int J Ser C **41**(2) 260-268 (Jun 1998), 9A407
Robust backstepping and neural network control of a low-quality nonholonomic mobile robot, Int J Machine Tools Manuf **39**(7) 1117-1134 (Jul 1999), 9A474
Feedback control strategies for a nonholonomic mobile robot using a nonlinear oscillator, J Robotic Syst **16**(4) 237-248 (Apr 1999), 9A502
Free gait control for a quadruped walking robot, Lab Robotics Autom **11**(2) 71-81 (1999), 9A503
Human-robot GUI system with group control for multiple mobile robot systems: Graphic interface and comparison with previous joystick-based system, Int J Japan Soc Precision Eng **32**(4) 291-296 (Dec 1998), 9A504
Omnidirectional walking mechanism: Redundancy and trajectory control, JSME Int J Ser C **40**(4) 694-701 (Dec 1997), 9A505
Shortest path based path planning algorithm for nonholonomic mobile robots, J Intelligent & Robotic Syst **24**(4) 347-366 (Apr 1999), 9A506
Smooth path tracking algorithm for wheeled mobile robots with dynamic constraints, J Intelligent & Robotic Syst **24**(4) 367-385 (Apr 1999), 9A507
Theory and Practice of Robots and Manipulators (Springer-Verlag, Vienna, 1998) 10N11
Smooth vision-based autonomous land vehicle navigation in indoor environments by person following using sequential pattern recognition, J Robotic Syst **16**(5) 249-262 (May 1999), 10A484
Visual servoing control of autonomous robot calibration and navigation, J Robotic Syst **16**(6) 313-328 (Jun 1999), 11A394
DC thruster controller implementation with integral anti-wind up compensator for underwater ROV, J Intelligent & Robotic Syst **25**(1) 79-94 (May 1999), 11A411
Dynamic analysis of biped robot with elastic damping elements (Chinese), J Huazhong Univ Sci Tech **27**(5) 82-84 (May 1999), 11A412
Navigation integration of a mobile robot in dynamic environments, J Robotic Syst **16**(7) 387-404 (Jul 1999), 11A413
Sensing under uncertainty for mobile robots, J Intelligent & Robotic Syst **25**(1) 1-25 (May 1999), 11A414
Mechanical construction and computer architecture of the four-legged walking machine BISAM, IEEE/ASME Trans Mechatronics **4**(1) 32-38 (Mar 1999), 12A470
Biologically inspired walking machines, European J Mech Eng **44**(2) 96-98 (1999), 12A511
Biped and dynamic locomotion synthesis and the computer simulation (Chinese), J Huazhong Univ Sci Tech **27**(3) 12-15 (Mar 1999), 12A512
Design and modeling of an omnimobile robot, European J Mech Eng **44**(2) 67-74 (1999), 12A513
Flexibility maps: A formalization of navigation behaviors, Robotics Autonomous Syst **27**(3) 151-169 (May 1999), 12T514
Integrating exploration, localization, navigation, and planning with a common representation, Autonomous Robots **6**(3) 293-308 (Jun 1999), 12A515
Maximal weight moment and overturn tendency of multi-sucker wall-climbing mechanism, J Shanghai Univ **3**(2) 148-152 (Jun 1999), 12A516
Repeatability of real world training experiments: A case study, Autonomous Robots **6**(3) 281-292 (Jun 1999), 12A517
Social potential fields: A distributed behavioral control for autonomous robots, Robotics Autonomous Syst **27**(3) 171-194 (May 1999), 12T518
Underwater creeping microrobot with saddle-shaped click buckling spring strip (Japanese), J Japan Soc Precision Eng **65**(5) 753-757 (May 1999), 12A519
Walking machines for humanitarian demining, European J Mech Eng **44**(2) 91-95 (1999), 12A520
Functional arbitration for multipurpose senso-motory systems, Robotics Autonomous Syst **27**(3) 129-150 (May 1999), 12T535

206E. Kinematics, dynamics

Comparison and validation of dynamics simulation models for a structurally flexible manipulator, J Dyn Syst Meas Control **120**(3) 404-409 (Sep 1998), 1A420
Explicit solution of pole assignment in the sliding mode controller design of flexible manipulators, Int J Robotics Autom **13**(2) 60-64 (1998), 1A426
Planar dynamics of flexible manipulators with slewing deployable links, J Guidance Control Dyn **21**(4) 572-580 (Jul-Aug 1998), 1A430
Adaptive controller of a master-slave system for transparent teleoperation, J Robotic Syst **15**(8) 465-475 (Aug 1998), 1A457
Automatic model generation for modular reconfigurable robot dynamics, J Dyn Syst Meas Control **120**(3) 346-352 (Sep 1998), 1A458
Closed-form dynamic equations of the general Stewart platform through the Newton-Euler approach, Mech Machine Theory **33**(7) 993-1012 (Oct 1998), 1A459
Comparison of an exact and an approximate method of singularity avoidance in platform type parallel manipulators, Mech Machine Theory **33**(7) 965-974 (Oct 1998), 1A460
Dynamic modeling and mode analysis of flexible-link, flexible-joint robots, Mech Machine Theory **33**(7) 1031-1044 (Oct 1998), 1A461
Effects of joint flexibility on robot motion control using joint torque sensors, Int J Robotics Autom **13**(2) 43-47 (1998), 1A462
Initial experiments on UWO Flexible Manipulator, Int J Robotics Autom **13**(2) 54-59 (1998), 1A463
Kinematic analysis of geared robot manipulators by the concept of structural decomposition, Mech Machine Theory **33**(7) 975-986 (Oct 1998), 1A464
Measure of stability for mobile manipulators with application to heavy-duty hydraulic machines, J Dyn Syst Meas Control **120**(3) 360-370 (Sep 1998), 1A465
Modeling and robust force control of constrained one-link flexible arms, J Robotic Syst **15**(8) 447-464 (Aug 1998), 1A466
Optimization of the trajectory planning of robot manipulators taking into account the dynamics of the system, Mech Machine Theory **33**(7) 883-894 (Oct 1998), 1A467
Parametric uncertainty on manipulators dynamics, Mech Machine Theory **33**(7) 945-956 (Oct 1998), 1A468
Quartic singularity surfaces of planar platforms in the Clifford algebra of the projective plane, Mech Machine Theory **33**(7) 931-944 (Oct 1998), 1A469
Recursive formula for the inverse of the inertial matrix of a parallel manipulator, Mech Machine Theory **33**(7) 957-964 (Oct 1998), 1A470
International Conference on Advances in Mechanical Engineering: Bangalore, India December 20-22, 1995, Mech Machine Theory **33**(8) 1091-1299 (Nov 1998), 1T1059
Advances in Robot Kinematics: Analysis and Control (Kluwer, Netherlands, 1998) 2N8
Exponential trajectory tracking control in the workspace of a class of flexible robots, J Robotic Syst **15**(9) 487-504 (Sep 1998), 2A529
Kinematics of free-floating robots revisited, Appl Math Comp Sci **7**(3) 593-610 (1997), 2A557
Parameter identification in robot control, Appl Math Comp Sci **7**(2) 377-399 (1997), 2A558
Singularity avoidance in redundant robot kinematics: A dynamical system approach, Appl Math Comp Sci **7**(2) 401-412 (1997), 2A559
Modeling of elastically coupled bodies - Part I: General theory and geometric potential function method, J Dyn Syst Meas Control **120**(4) 496-500 (Dec 1998), 3A96
Modeling of elastically coupled bodies - Part II: Exponential and generalized coordinate methods, J Dyn Syst Meas Control **120**(4) 501-506 (Dec 1998), 3A97
Dynamic modeling of a nonlinearly constrained flexible manipulator with a tip mass by Hamilton's principle, J Sound Vib **216**(5) 751-769 (Oct 1998), 3A134
New simple method of control of robotic manipulators with uncertain parameters, J Robotic Syst **15**(10) 551-558 (Oct 1998), 3A418
Robust hybrid control of constrained robot manipulators via decomposed equations, J Intelligent & Robotic Syst **23**(1) 45-70 (Sep 1998), 3A420
Control of robots with elastic joints interacting with dynamic environment, J Intelligent & Robotic Syst **23**(1) 87-100 (Sep 1998), 3A459
Explicit equations of the Burmester curves for the *PPP-P* case in spherical motion, J Franklin Inst **335B**(8) 1467-1476 (Nov 1998), 3A460
Geometric decomposition of robotic manipulator stiffness (Chinese), J Huazhong Univ Sci Tech **26**(6) 103-106 (Jun 1998), 3A461
Inverse kinematics, statics, and fault tolerance of cable-suspended robots, J Robotic Syst **15**(10) 581-597 (Oct 1998), 3A462
Manipulability of closed kinematic chains, J Mech Des **120**(4) 542-548 (Dec 1998), 3A463
Kinematic analysis of singularity loci of spatial four-dof parallel manipulators using a vector formulation, J Mech Des **120**(4) 555-558 (Dec 1998), 3A987
Endpoint control of a two-link flexible manipulator, J Vib and Control **4**(6) 747-766 (Nov 1998), 4A138
Control algorithms for stabilizing underactuated robots, J Robotic Syst **15**(12) 681-697 (Dec 1998), 4A420
Cartesian control of redundant flexible-joint manipulators, Int J Robotics Autom **13**(3) 76-86 (1998), 4A441
Computation of stiffness and stiffness bounds for parallel link manipulators, Int J Machine Tools Manuf **39**(2) 321-342 (Feb 1999), 4A442
Computational geometry approach for determination of boundary of workspaces of planar manipulators with arbitrary topology, Mech Machine Theory **34**(1) 149-169 (Jan 1999), 4A443
Contribution to the dynamics of free-flying space manipulators, Mech Machine Theory **34**(3) 359-372 (Apr 1999), 4A444
Dynamic modeling of geared robotic mechanisms - The Virtual link approach, Mech Machine Theory **34**(1) 105-121 (Jan 1999), 4A445
Flexible robot dynamics, J Brazilian Soc Mech Sci **20**(3) 416-429 (Sep 1998), 4A446
Formulation of the direct and inverse geometric model of the fully parallel Cartesian structure, J Brazilian Soc Mech Sci **20**(3) 445-453 (Sep 1998), 4A447
Forward kinematic problem of parallel robots (French), Mech Machine Theory **34**(2) 255-269 (Feb 1999), 4A448
Inherent characteristics of the dynamics of rigid link robot manipulators, Mech Machine Theory **34**(2) 171-191 (Feb 1999), 4A449

New golf-swing robot model utilizing shaft elasticity, J Sound Vib **217**(1) 17-31 (Oct 1998), 4A450
Statistical-harmonic modeling of mechanical manipulators, J Brazilian Soc Mech Sci **20**(3) 437-444 (Sep 1998), 4A451
Velocity analysis of parallel manipulators by truss transformations, Mech Machine Theory **34**(3) 345-357 (Apr 1999), 4A452
Static balancing of spatial three-dof parallel mechanisms, Mech Machine Theory **34**(3) 437-452 (Apr 1999), 4A975
Direct displacement analysis of a Stewart platform mechanism, Mech Machine Theory **34**(3) 453-465 (Apr 1999), 4A980
Workspace determination of spherical serial and platform mechanisms, Mech Machine Theory **34**(3) 497-512 (Apr 1999), 4A981
Complex Robotic Systems (Springer-Verlag, New York, 1998) 5N9
Forward kinematics for Hunt-Primrose parallel manipulators, Mech Machine Theory **34**(4) 657-664 (May 1999), 5A399
Novel approaches for computing the dynamic load-carrying capacity of multiple cooperating robotic manipulators, Mech Machine Theory **34**(4) 637-643 (May 1999), 5A400
Singularities in mechanisms - II: Trajectory tracking in the 3-axis wrist, Mech Machine Theory **34**(4) 513-526 (May 1999), 5A872
Dynamics of a rotating flexible manipulator with tip load, Acta Mech Solida Sinica **11**(4) 365-373 (1998), 6A99
Dynamic analysis tool for legged robots, Multibody Syst Dyn **2**(4) 369-391 (Dec 1998), 6A459
Group shape generating model movement model for cooperative robots system, Mechatronics **8**(8) 905-925 (Dec 1998), 6T463
New approach for the dynamic analysis of parallel manipulators, Multibody Syst Dyn **2**(3) 317-334 (Sep 1998), 6A465
Nonlinear torque control of a single-link flexible robot, J Robotic Syst **16**(1) 25-35 (Jan 1999), 6A466
In-parallel manipulators: A framework on how to model actuation schemes and a study of their effects on singular postures, J Mech Des **121**(1) 2-8 (Mar 1999), 7A406
Interpolation of spatial displacements using the Clifford Algebra of E^4, J Mech Des **121**(1) 39-44 (Mar 1999), 7A407
Optimum quality index for the stability of in-parallel planar platform devices, J Mech Des **121**(1) 15-20 (Mar 1999), 7A408
Order-N formulation and dynamics of multi-unit flexible space manipulators, Nonlinear Dyn **17**(4) 347-368 (Dec 1998), 7A409
Singularity analysis of closed kinematic chains, J Mech Des **121**(1) 32-38 (Mar 1999), 7A410
Study on robot arm with characteristics of human muscle (Japanese), J Japan Soc Precision Eng **64**(12) 1768-1772 (Dec 1998), 7A411
Robot Analysis: The Mechanics of Serial and Parallel Manipulators (Wiley, New York, 1999) 8R12
Robot dynamic modeling using a power flow approach with application to biped locomotion, Autonomous Robots **6**(1) 39-52 (Jan 1999), 8A460
Active vibration control of flexible robots using virtual spring-damper systems, J Intelligent & Robotic Syst **24**(1) 69-88 (Jan 1999), 8A462
Coordinated motion and force control of multi-limbed robotic systems, Autonomous Robots **6**(1) 7-20 (Jan 1999), 8A463
Kinematic and dynamic models of hybrid robot manipulator for propeller grinding, J Robotic Syst **16**(3) 137-150 (Mar 1999), 8A464
Manipulability and transmissivity of manipulators, Int J Robotics Autom **13**(4) 132-136 (1998), 8A465
Position and force control of two constrained robotic manipulators, J Intelligent & Robotic Syst **24**(1) 1-22 (Jan 1999), 8A466
Practical stability of robotics interacting with dynamic environment, Int J Robotics Autom **13**(4) 137-146 (1998), 8A467
Reducing numerical complexity of complex robot dynamics, J Intelligent & Robotic Syst **24**(3) 269-293 (Mar 1999), 8A468
Simulation of micro-manipulations: Adhesion forces and specific dynamic models, Int J Adhesion Adhesives **19**(1) 35-48 (Feb 1999), 8A469
Time-optimal constant speed motion program for multiple cooperating manipulators, J Robotic Syst **16**(3) 185-194 (Mar 1999), 8A470
Optimum structure design for improving the dynamics of flexible-link manipulators, Int J Robotics Autom **13**(4) 125-131 (1998), 8A836
Tetrobot: A Modular Approach to Reconfigurable Parallel Robotics (Kluwer, Netherlands, 1998) 9R17
Vibration control of mobile robot vehicle by dynamic vibration absorber, JSME Int J Ser C **42**(1) 61-70 (Mar 1999), 9A124
Shortest path based path planning algorithm for nonholonomic mobile robots, J Intelligent & Robotic Syst **24**(4) 347-366 (Apr 1999), 9A506
Smooth path tracking algorithm for wheeled mobile robots with dynamic constraints, J Intelligent & Robotic Syst **24**(4) 367-385 (Apr 1999), 9A507
Adaptive fuzzy network for control of manipulating robot dynamic behavior, Control and Cybernetics **27**(4) 503-519 (1998), 9A508
Constrained optimization approach for path planning of redundant robot manipulators, JSME Int J Ser C **41**(3) 430-442 (Sep 1998), 9A509
Dynamics of contact tasks in robotics - Part I: General model of robot interacting with environment, Mech Machine Theory **34**(6) 923-942 (Aug 1999), 9A510
Dynamics of contact tasks in robotics - Part II: Case study in dynamics of contact motion, Mech Machine Theory **34**(6) 943-972 (Aug 1999), 9A511
Dynamics of planar manipulators with flexible links driven by motors with harmonic drives, Machine Dyn Prob **22** 19-31 (1998), 9T512
General strategy based on the Newton-Euler approach for the dynamic formulation of parallel manipulators, Mech Machine Theory **34**(6) 801-824 (Aug 1999), 9A513
Hybrid artificial neural network inverse kinematic solution for accurate robot path control, J Syst Control Eng **213**(I1) 23-32 (1999), 9A514
Identification of placement parameters for modular platform manipulators, J Robotic Syst **16**(4) 227-236 (Apr 1999), 9A515
Kinematics and workspace analysis of a parallel wire mechanism for measuring a robot pose, Mech Machine Theory **34**(6) 825-841 (Aug 1999), 9A516
Numerical algorithm for solving manipulator forward dynamics, Mech Machine Theory **34**(6) 843-855 (Aug 1999), 9A517
Numerical inverse kinematics for modular reconfigurable robots, J Robotic Syst **16**(4) 213-225 (Apr 1999), 9A518
Solving the forward kinematics of a planar three-legged platform with holonomic higher pairs, J Mech Des **121**(2) 212-219 (Jun 1999), 9A519
Hierarchical decomposition scheme for the topological synthesis of articulated gear mechanisms, J Mech Des **121**(2) 256-263 (Jun 1999), 9A1051
Disturbance rejection for space-based manipulators, J Robotic Syst **16**(5) 285-299 (May 1999), 10A485
Robot control for robust stability with finite reachability time in the whole, J Robotic Syst **16**(5) 263-283 (May 1999), 10A486
Motions, efforts, and actuations in constrained dynamic systems: A multilink closed chain example, J Robotic Syst **16**(7) 363-385 (Jul 1999), 11A136
Closed-loop inverse kinematics algorithm for constrained flexible manipulators under gravity, J Robotic Syst **16**(6) 353-362 (Jun 1999), 11A415
Improved trajectory planner for redundant manipulators in constrained workspace, J Robotic Syst **16**(6) 339-351 (Jun 1999), 11A416
Inverse dynamics of flexible manipulators with Coulomb friction or backlash and non-zero initial conditions, Dyn Control **9**(2) 173-195 (Apr 1999), 11A417
Inverse kinematics and singularities of manipulators with offset wrist, Int J Robotics Autom **14**(1) 1-8 (1999), 11A418
Redundancy resolution and obstacle avoidance for cooperative industrial robots, J Robotic Syst **16**(7) 405-417 (Jul 1999), 11A419
Dynamic modeling of a rigid-flexible manipulator for constrained motion task control, Appl Math Model **23**(7) 509-525 (Jul 1999), 11A423
Dynamic robot manipulator trajectory planning for obstacle avoidance, Mech Res Commun **26**(2) 139-144 (Mar-Apr 1999), 11T424
Kinematic Analysis of Robot Manipulators (Cambridge UP, UK, 1998) 12R11
Dynamic modeling and analysis of a robot manipulator intercepting and capturing a moving object, with the consideration of structural flexibility, Multibody Syst Dyn **3**(2) 137-162 (May 1999), 12A521
Geometric interpretation of singular poses of serial and parallel robots, European J Mech Eng **44**(2) 85-89 (1999), 12A522
Robotic force control using virtual trajectory generation, J Dyn Syst Meas Control **121**(2) 320-322 (Jun 1999), 12A530
Force oscillations in contact motion of industrial robots: An experimental investigation, IEEE/ASME Trans Mechatronics **4**(1) 86-91 (Mar 1999), 12A537
Comparative structural analysis of 2dof semi-direct-drive linkages for robot arms, IEEE/ASME Trans Mechatronics **4**(1) 82-86 (Mar 1999), 12A1008
New golf-swing robot model emulating golfer's skill, Sports Eng **2**(1) 13-22 (Feb 1999), 12A1668

206F. Sensors and controls

Adaptive algorithm for the tuning of two input shaping methods, Automatica **34**(6) 771-776 (Jun 1998), 1A360
Quasi-tracking approach for finite-time control of a mass-beam system, Automatica **34**(7) 881-888 (Jul 1998), 1A383
Algorithm for time-optimal control problems, J Dyn Syst Meas Control **120**(3) 414-418 (Sep 1998), 1A408
Comparison and validation of dynamics simulation models for a structurally flexible manipulator, J Dyn Syst Meas Control **120**(3) 404-409 (Sep 1998), 1A420
Comparison of viscoelastic models in simulating the transient response of a slewing polymer arm, J Dyn Syst Meas Control **120**(3) 340-345 (Sep 1998), 1A421
Position control of flexible robot arms using mechanical waves, J Dyn Syst Meas Control **120**(3) 334-339 (Sep 1998), 1A431
Variable frequency PWM method for over-rated quick driving of robots (Japanese), J Japan Soc Precision Eng **64**(6) 845-850 (Jun 1998), 1A433
Effects of joint flexibility on robot motion control using joint torque sensors, Int J Robotics Autom **13**(2) 43-47 (1998), 1A462
Domains of mobility for a planar body moving among obstacles, J Mech Des **120**(3) 462-467 (Sep 1998), 1A471
Experimental study on torque control using harmonic drive: Built-in torque sensors, J Robotic Syst **15**(8) 435-445 (Aug 1998), 1A472
Inexpensive video signal multiplexer for multicamera machine vision in automated analytical laboratory systems, Lab Robotics Autom **10**(3) 131-141 (1998), 1A473
Sensor-based deflection modeling and compensation control of flexible robotic manipulator, Mech Machine Theory **33**(7) 909-924 (Oct 1998), 1A474
Visualizing multi-sensor model-based object recognition, Machine Graphics & Vision **6**(3) 279-303 (1997), 1A475
Motion control and shape optimization of a suitlike flexible arm, Struct Optim **15**(3-4) 163-171 (Jun 1998), 1A952
Adaptive and robust control of flexible joint robots in constrained motion, Appl Math Comp Sci **7**(2) 253-272 (1997), 2A560
Adaptive force-position control scheme for robot manipulators, Appl Math Comp Sci **7**(2) 293-303 (1997), 2A561
Control of redundant robots under end-effector commands: A case study in underactuated systems, Appl Math Comp Sci **7**(2) 225-251 (1997), 2A562
Dynamic modeling of a smart materials robot, AIAA J **36**(8) 1466-1478 (Aug 1998), 2A564
Application of learning to high-speed robotic manipulators, J Syst Control Eng **212**(I4) 315-323 (1998), 3T371
Modeling and control of a 3D overhead crane, J Dyn Syst Meas Control **120**(4) 471-476 (Dec 1998), 3A416
Artificial force reflection control for teleoperated mobile robots, Mechatronics **8**(6) 707-717 (Sep 1998), 3T464
Motion planning of redundant robot manipulators using constrained optimization: A parallel approach, J Syst Control Eng **212**(I4) 281-292 (1998), 3T465
Passivity-based interaction controller and observer for robot manipulators, J Dyn Syst Meas Control **120**(4) 516-520 (Dec 1998), 3A466
Position and force control of two CRS A460 robots manipulating a flexible sheet: Theory and experiment, J Dyn Syst Meas Control **120**(4) 529-533 (Dec 1998), 3A467
Robot trajectory control system design for multiple simultaneous specifications: Theory and experimentation, J Dyn Syst Meas Control **120**(4) 520-523 (Dec 1998), 3A468
Robotic motion controller using a self-organizing fuzzy logic algorithm with grey prediction, J Syst Control Eng **212**(I4) 293-304 (1998), 3A469
Robust position-force control of robot manipulators during constrained tasks, IEE Proc Control Theory Appl **145**(4) 427-433 (Jul 1998), 3A470
Tracking control of robot manipulators using a robust deterministic control law, J Dyn Syst Meas Control **120**(4) 537-541 (Dec 1998), 3A471
Inversion-based sliding control of a flexible-link manipulator, Int J Control **71**(3) 477-490 (Oct 1998), 4A391
Integrated adaptive-robust control of robot manipulators, J Robotic Syst **15**(12) 699-712 (Dec 1998), 4A401
Development of a fuzzy logic controller that drives a passive compliant manipulator, J Robotic Syst **15**(12) 671-680 (Dec 1998), 4A421
Control of the trajectory of a planar robot using recurrent hybrid networks, Int J Machine Tools Manuf **39**(3) 415-429 (Mar 1999), 4A453
Experimental evaluation of a partial-state feedback controller for SRM-RLED robot manipulators, Int J Robotics Autom **13**(3) 65-75 (1998), 4A454
Global minimum-time trajectory planning of mechanical manipulators using interval analysis, Int J Control **71**(4) 631-652 (Nov 1998), 4A455
Intelligent image analysis for error detection and correction in automated laboratory robot systems, Lab Robotics Autom **10**(5) 273-282 (1998), 4A456
Posture measure and control for robot compliance tasks, J Robotic Syst **15**(11) 623-640 (Nov 1998), 4A457
Robust adaptive control of a robotic manipulator including motor dynamics, J Robotic Syst **15**(11) 661-669 (Nov 1998), 4A458
Control Problems in Robotics and Automation (Springer-Verlag, New York, 1998) 5N12
Robot Motion Planning and Control (Springer-Verlag, New York, 1997) 5N13
Nonlinear dynamic motion optimization and control of multibody systems, Mech Struct Machines **26**(4) 343-363 (1998), 5T79
Command shaping in tracking control of a two-link flexible robot, J Guidance Control Dyn **21**(6) 1012-1015 (Nov-Dec 1998), 5T381
Method of slow variables in the problem of the control of the motion of an elastic manipulator, J Appl Math Mech **62**(3) 379-388 (1998), 5A401
Six-dimension displacement sensor (Chinese), J Beijing IT **18**(3) 265-268 (Jun 1998), 5A402
Study on an evaluation process of the robot control accuracy - 1st Report: Examination of multivariable RMS evaluation process and application, J Japan Soc Precision Eng **64**(10) 1527-1531 (Oct 1998), 5A403
Genetic learning of fuzzy reactive controllers, Robotics Autonomous Syst **25**(1-2) 33-41 (Oct 1998), 6A423
Novel biomimetic acturator system, Robotics Autonomous Syst **25**(1-2) 1-18 (Oct 1998), 6A430
Autonomous mobile robots, Robotics Autonomous Syst **25**(3-4) 137-262 (Nov 1998), 6A458
Evolution of a world model for a miniature robot using genetic programming, Robotics Autonomous Syst **25**(1-2) 105-116 (Oct 1998), 6T460
Group shape generating model movement model for cooperative robots system, Mechatronics **8**(8) 905-925 (Dec 1998), 6T463
Application of nonlinear H_∞ control to the Tetrabot robot manipulator, J Syst Control Eng **212**(16) 459-465 (1998), 6T467
Passivity-based versus disturbance observer based robot control: Equivalence and stability, J Dyn Syst Meas Control **121**(1) 41-47 (Mar 1999), 6A468
Robust landmark-based system for vehicle location using low-bandwidth vision, Robotics Autonomous Syst **25**(1-2) 19-32 (Oct 1998), 6T469
Similarity and invariance in scaled bilateral telemanipulation, J Dyn Syst Meas Control **121**(1) 79-87 (Mar 1999), 6A470
Tracking control of robot manipulator using sliding mode controller with performance robustness, J Dyn Syst Meas Control **121**(1) 64-70 (Mar 1999), 6A471
Trajectory tracking control of robot manipulators using a neural-network-based torque compensator, J Syst Control Eng **212**(I5) 361-372 (1998), 6A472
Optimal control of a flexible manipulator and controller order reduction, Optimal Control Appl Methods **19**(5) 331-343 (Sep-Oct 1998), 7A386
Frequency reshaped quadratic control of a low-cost human-level performance belt-driven robot, Mechatronics **9**(1) 95-110 (Feb 1999), 7T395
Robust distributed controller of a single-link SCARA-Cartesian smart materials robot, Mechatronics **9**(1) 65-93 (Feb 1999), 7A397
Coordination and control of multi-fingered robot hands with rolling and sliding contacts, J Intelligent & Robotic Syst **24**(2) 125-149 (Feb 1999), 7A412
Determination of the actual configuration of the general Stewart platform using only one additional sensor, J Mech Des **121**(1) 21-25 (Mar 1999), 7A413
Towards autonomous robotic servicing: Using an integrated hand-arm-eye system for manipulating unknown objects, Robotics Autonomous Syst **26**(1) 23-42 (Jan 1999), 7A414
Neural Network Control of Robot Manipulators and Nonlinear Systems (Taylor & Francis, UK, 1999) 8R11
Adaptive control of electrically driven space robots based on virtual decomposition, J Guidance Control Dyn **22**(2) 329-339 (Mar-Apr 1999), 8T418
Adaptive H_∞ neutral network tracking controller for electrically driven manipulators, IEE Proc Control Theory Appl **145**(6) 594-602 (Nov 1998), 8A420
Neural network force control for industrial robots, J Intelligent & Robotic Syst **24**(3) 253-268 (Mar 1999), 8A425
Parallel robot control using speculative computation, Int J Robotics Autom **13**(4) 101-112 (1998), 8A427
Application of position-force control to scale calibration, Mechatronics **9**(2) 207-224 (Mar 1999), 8A454
Special Issue: Field and Service Robotics, Robotics Autonomous Syst **26**(2-3) 81-232 (Feb 1999), 8A461
Adaptive neural network based controller for robots, Mechatronics **9**(2) 147-162 (Mar 1999), 8A471
AV-shell,an environment for autonomous robotic applications using active vision, Autonomous Robots **6**(1) 21-38 (Jan 1999), 8A472
Perceptual advantages of active robot vision, J Robotic Syst **16**(3) 163-183 (Mar 1999), 8A473
Decentralized tracking control of robot manipulators (Chinese), J Huazhong Univ Sci Tech **26**(12) 10-12 (Dec 1998), 8A474
Positivity and stabilization of driver support systems, Control and Cybernetics **28**(1) 53-59 (1999), 9A393
Design of a robust adaptive fuzzy controller globally stabilizing the multi-input nonlinear system with

state-dependent uncertainty, Control and Cybernetics **27**(4) 613-629 (1998), 9A415
Gain-scheduling H_∞ vibration control of SCARA type robot manipulators, JSME Int J Ser C **41**(4) 879-885 (Dec 1998), 9A435
Performance improvement of robot manipulator control using an on-line neural network compensator, J Syst Control Eng **213**(I1) 49-60 (1999), 9A473
Fuzzy PWM control of the positions of a pneumatic robot cylinder using high speed solenoid valve, JSME Int J Ser C **40**(3) 469-476 (Sep 1997), 9A481
Hybrid artificial neural network inverse kinematic solution for accurate robot path control, J Syst Control Eng **213**(I1) 23-32 (1999), 9A514
Adaptive neural network control of coordinated manipulators, J Robotic Syst **16**(4) 195-211 (Apr 1999), 9A520
Behavior analysis of genetic fuzzy controller for an autonomous robot, Control and Cybernetics **27**(4) 579-591 (1998), 9A521
Design of time-optimal control for two-wheel driven carts catching a target trajectory, Mech Machine Theory **34**(6) 877-888 (Aug 1999), 9A522
Fuzzy controller with a real-time tuning algorithm and its application to a steam generator water level control, Control and Cybernetics **27**(4) 545-564 (1998), 9A523
Implementation of a variable D-H parameter model for robot calibration using an FCMAC learning algorithm, J Intelligent & Robotic Syst **24**(4) 313-346 (Apr 1999), 9A524
Information centric approach to heterogeneous multisensor integration for robotic applications, Robotics Autonomous Syst **26**(4) 255-280 (Mar 1999), 9T525
Simple linear stabilizing controller for a RLED robot with uncertain parameters and some related applications, Int J Control **72**(6) 546-559 (Apr 1999), 9T526
Highly accurate dynamic position measurement for wheeled mobile robot using laser beacon measurement system, JSME Int J Ser C **41**(4) 844-851 (Dec 1998), 9A528
Theory and Practice of Robots and Manipulators (Springer-Verlag, Vienna, 1998) 10N11
Implementation of N-step-ahead neurocontrol on a 3-axes heavy duty hydraulic manipulator, Mechatronics **9**(3) 235-270 (Apr 1999), 10A450
H_∞ control of a flexible gantry robot arm using smart actuators, Mechatronics **9**(3) 271-286 (Apr 1999), 10A466
Robot control for robust stability with finite reachability time in the whole, J Robotic Syst **16**(5) 263-283 (May 1999), 10A486
Enhanced direct adaptive fuzzy control of robot manipulators, J Robotic Syst **16**(5) 301-311 (May 1999), 10A487
Hybrid fuzzy P + ID control manipulators under uncertainty, Mechatronics **9**(3) 301-315 (Apr 1999), 10A488
Visual servoing control of autonomous robot calibration and navigation, J Robotic Syst **16**(6) 313-328 (Jun 1999), 11A394
Adaptive control of free-flying space robot with position-attitude control system, J Guidance Control Dyn **22**(3) 488-490 (May-Jun 1999), 11T420
Chattering elimination in the hybrid control of constrained manipulators via first-second order sliding mode control, Dyn Control **9**(2) 99-124 (Apr 1999), 11A421
Planning and control of a biped robot, Int J Eng Sci **37**(10) 1319-1349 (Aug 1999), 11A422
Robust control of two-link flexible manipulators using the μ-synthesis technique, J Vib and Control **5**(4) 559-576 (Jul 1999), 12A139
Joint impedance pneumatic control for multilink systems, J Dyn Syst Meas Control **121**(2) 293-297 (Jun 1999), 12A413
Determination of minimum-time maneuvers for a robotic manipulator using numerical optimization methods, Mech Struct Machines **27**(2) 185-201 (1999), 12A421
Robotic interception of moving objects in industrial settings: Strategy development and experiment, IEEE/ASME Trans Mechatronics **3**(3) 225-239 (Sep 1998), 12A424
Development of an active force sensor with an actuation capability - Part I: A study on basic principles (Japanese), J Japan Soc Precision Eng **65**(5) 758-762 (May 1999), 12A441
Message-based evaluation in scheme for high-level robot control, J Intelligent & Robotic Syst **25**(2) 109-119 (Jun 1999), 12A456
Nonlinear adaptive control of direct-drive brushless DC motors and applications to robotic manipulators, IEEE/ASME Trans Mechatronics **4**(1) 71-81 (Mar 1999), 12A476
Comparison of optical position detectors in a force controlled displacement probe, Int J Japan Soc Precision Eng **33**(1) 55-56 (Mar 1999), 12A523
De-coupling for re-use in design and implementation using virtual sensors, Autonomous Robots **6**(3) 265-280 (Jun 1999), 12A524
Modeling and evaluating color information for robot vision, Mechatronics **9**(4) 429-446 (Jun 1999), 12T525
New method to improve obstacle detection accuracy using simultaneous firing of sonar ring sensors, Int J Japan Soc Precision Eng **33**(1) 49-54 (Mar 1999), 12A526
Object recognition and selective handling by a robot, J Intelligent & Robotic Syst **25**(2) 121-132 (Jun 1999), 12A527
Performance improvement of industrial robot trajectory tracking using adaptive-learning scheme, J Dyn Syst Meas Control **121**(2) 285-292 (Jun 1999), 12A528
Recognition and location of partially occluded objects, J Intelligent & Robotic Syst **25**(2) 133-151 (Jun 1999), 12A529
Robotic force control using virtual trajectory generation, J Dyn Syst Meas Control **121**(2) 320-322 (Jun 1999), 12A530
Robust hybrid position-force control of redundant robots, Robotics Autonomous Syst **27**(3) 111-127 (May 1999), 12A531
Robust tracking control for constrained robots actuated by DC motors without velocity measurements, IEE Proc Control Theory Appl **146**(2) 147-156 (Mar 1999), 12A532
Sliding mode control of a hydraulic industrial robot, J Dyn Syst Meas Control **121**(2) 312-318 (Jun 1999), 12A533
Functional arbitration for multipurpose senso-motory systems, Robotics Autonomous Syst **27**(3) 129-150 (May 1999), 12T535

206G. Position applications

Special issue on learning in autonomous robots, Autonomous Robots **5**(3-4) 239-420 (Jul-Aug 1998), 2T473
Robust position-force control of robot manipulators during constrained tasks, IEE Proc Control Theory Appl **145**(4) 427-433 (Jul 1998), 3A470
Approximate cell decomposition with local node refinement global path planning method: Path nodes refinement and curve parametric interpolation, J Intelligent & Robotic Syst **22**(3-4) 289-314 (Jul 1998), 3A472
Using many-sorted logic in the object-oriented data model for fast robot task planning, J Intelligent & Robotic Syst **23**(1) 1-25 (Sep 1998), 3A473
Accurate determination of object position from imprecise data, J Mech Des **120**(4) 559-564 (Dec 1998), 3A992
Statistical-harmonic modeling of mechanical manipulators, J Brazilian Soc Mech Sci **20**(3) 437-444 (Sep 1998), 4A451
Design procedure for RPR planar robotic workcells: An algebraic approach, Mech Machine Theory **34**(2) 193-203 (Feb 1999), 4A459
Direct positional analysis for a kind of 5-5 platform in-parallel robotic mechanism, Mech Machine Theory **34**(2) 285-301 (Feb 1999), 4A460
Synthesis of workspaces of planar manipulators with arbitrary topology using shape representation and simulated annealing, Mech Machine Theory **34**(3) 391-420 (Apr 1999), 4A461
Command shaping in tracking control of a two-link flexible robot, J Guidance Control Dyn **21**(6) 1012-1015 (Nov-Dec 1998), 5T381
Burmester lines of spatial five position synthesis from the analysis of a 3-CPC platform, J Mech Des **121**(1) 45-49 (Mar 1999), 7A415
Closed form solution to workspace of hexapod-based virtual axis machine tools, J Mech Des **121**(1) 26-31 (Mar 1999), 7A416
Time optimum trajectory planning for robots based on B-spline path (Chinese), J Shanghai Jiaotong Univ **32**(12) 29-33 (Dec 1998), 8A417
Decentralized tracking control of robot manipulators (Chinese), J Huazhong Univ Sci Tech **26**(12) 10-12 (Dec 1998), 8A474
Path planning in unknown environment with obstacles using virtual window, J Intelligent & Robotic Syst **24**(3) 235-251 (Mar 1999), 8A475
Workspace, void, and volume determination of the general 5-dof manipulator, Mech Struct Machines **27**(1) 89-115 (1999), 8A476
Adaptive terminal sliding mode tracking control for rigid robotic manipulators with uncertain dynamics, JSME Int J Ser C **40**(3) 493-502 (Sep 1997), 9A466
Dynamic end-effector trajectory control for flexible micro-macro manipulators using an ideal manifold, JSME Int J Ser C **41**(2) 269-277 (Jun 1998), 9A498
Adaptive fuzzy logic control of a single-link flexible arm, JSME Int J Ser C **40**(4) 702-708 (Dec 1997), 9A527
Highly accurate dynamic position measurement for wheeled mobile robot using laser beacon measurement system, JSME Int J Ser C **41**(4) 844-851 (Dec 1998), 9A528
Study on minimum energy collision-free trajectory planning for rigid manipulators, JSME Int J Ser C **41**(1) 101-107 (Mar 1998), 9A529
DC thruster controller implementation with integral anti-wind up compensator for underwater ROV, J Intelligent & Robotic Syst **25**(1) 79-94 (May 1999), 11A411
Dynamic modeling of a rigid-flexible manipulator for constrained motion task control, Appl Math Model **23**(7) 509-525 (Jul 1999), 11A423
Dynamic robot manipulator trajectory planning for obstacle avoidance, Mech Res Commun **26**(2) 139-144 (Mar-Apr 1999), 11T424
Optimal constrained trajectory planning in the plane, Int J Robotics Autom **14**(1) 33-38 (1999), 11A425
Object recognition and selective handling by a robot, J Intelligent & Robotic Syst **25**(2) 121-132 (Jun 1999), 12A527
Recognition and location of partially occluded objects, J Intelligent & Robotic Syst **25**(2) 133-151 (Jun 1999), 12A529
Position detection by cross-correlation with linear scan camera: 1D high-speed video camera, Int J Japan Soc Precision Eng **33**(1) 57-58 (Mar 1999), 12T534

206H. Assembly applications

Modeling and simulation of assembly processes with robots, Appl Math Comp Sci **7**(2) 343-375 (1997), 2A563
VRCC: A variable remote center compliance device, Mechatronics **8**(6) 657-672 (Sep 1998), 3A437
Towards a fault tolerant cell controller for flexible assembly systems: An approach using colour Petri-Nets, Mechatronics **8**(7) 747-764 (Oct 1998), 4A506
Strategy investigation of precise robotic assembly operations with symmetric regular polyhedral objects, Proc Inst Mech Eng J Eng Manuf **212**(B7) 571-589 (1998), 6A473
Bead instability in robotic vertical-up GMA welding, Sci Eng J (Ciencia Eng) **7**(2) 79-84 (Jul-Dec 1998), 7A417
System for automatic extraction of feature-based assembly information, Proc Inst Mech Eng J Eng Manuf **213**(B1) 97-101 (1999), 7A418
Flow control of multi-level assembly systems, Int J Comput Integrated Manuf **12**(1) 84-95 (Jan-Feb 1999), 7T436
Move-to-contact facility for modeling mechanical assembly and simulation, Int J Machine Tools Manuf **39**(5) 683-704 (May 1999), 8A488
Intelligent motion task planning of redundant parallel manipulator, JSME Int J Ser C **42**(1) 203-209 (Mar 1999), 9A530
DFA-oriented assembly relation modeling, Int J Comput Integrated Manuf **12**(3) 238-250 (May-Jun 1999), 9T538
Integrated knowledge-based approach and system for product design for assembly, Int J Comput Integrated Manuf **12**(3) 211-237 (May-Jun 1999), 9A542
Novel omnidirectional image sensing system for assembling parts with arbitrary cross-sectional shapes, IEEE/ASME Trans Mechatronics **3**(4) 275-292 (Dec 1998), 12A478

206I. Miscellaneous applications

Criteria for the design of manipulator arms for a high stiffness-to-weight ratio, J Manuf Syst **17**(3) 209-220 (1998), 1A1046
Intelligent Robotics Systems - SIRS'97, Robotics Autonomous Syst **23**(4) 205-309 (Jul 1998), 3A457
Position and force control of two CRS A460 robots manipulating a flexible sheet: Theory and experiment, J Dyn Syst Meas Control **120**(4) 529-533 (Dec 1998), 3A467
Design and control criteria for a new type of surgical robot, J Brazilian Soc Mech Sci **20**(3) 430-436 (Sep 1998), 4A462
DUMASS: A surgical assist robot for minimal access surgery, Mechatronics **8**(7) 793-803 (Oct 1998), 4A463
Autonomous Robotic Systems (Springer-Verlag, New York, 1998) 5N8
Similarity and invariance in scaled bilateral telemanipulation, J Dyn Syst Meas Control **121**(1) 79-87 (Mar 1999), 6A470
Ultra precision production system organized by miniature robots - 2nd Report: Precision indentation and remote control (Japanese), J Japan Soc Precision Eng **64**(12) 1796-1800 (Dec 1998), 7A419
Vibration reduction of flexible manipulators using torque wheels, Mech Struct Machines **27**(1) 1-22 (1999), 8A431
Plan-N-Scan: A robotic system for collision-free autonomous exploration and workspace mapping, J Intelligent & Robotic Syst **24**(3) 207-234 (Mar 1999), 8A459
Low-order dynamic model for flexible hydraulic cranes, J Syst Control Eng **213**(I1) 11-22 (1999), 9A186
Design and experiments on a free-floating planar robot for optimal chase and capture operations in space, Robotics Autonomous Syst **26**(4) 281-297 (Mar 1999), 9A531
Self-organizing collective robots with morphogenesis in a vertical plane, JSME Int J Ser C **42**(1) 195-202 (Mar 1999), 9A532
Multi-agent systems applications, Robotics Autonomous Syst **27**(1-2) 3-106 (Apr 1999), 10A495
Modeling and analysis of electrostatic force for robot handling of fabric materials, IEEE/ASME Trans Mechatronics **4**(1) 39-49 (Mar 1999), 12T473

206Y. Computational techniques

Intelligent joint fault diagnosis of industrial robots, Mech Syst Signal Processing **12**(4) 571-588 (Jul 1998), 1A449
Numerical solution for a near-minimum-time trajectory for two coordinated manipulators, Eng Optim **30**(3-4) 227-247 (May 1998), 1A476
Robust tracking control scheme for a class of nonlinear systems with fuzzy nominal model, Appl Math Comp Sci **8**(1) 145-158 (1998), 2A483
Dynamic modeling of a smart materials robot, AIAA J **36**(8) 1466-1478 (Aug 1998), 2A564
Time-optimal trajectory planning in dynamic environments, Appl Math Comp Sci **7**(2) 433-458 (1997), 2A565
Intelligent Robotics Systems - SIRS'97, Robotics Autonomous Syst **23**(4) 205-309 (Jul 1998), 3A457
New method of robot parameter identification (Chinese), J Huazhong Univ Sci Tech **26**(S1) 75-77 (May 1998), 4A358
New golf-swing robot model utilizing shaft elasticity, J Sound Vib **217**(1) 17-31 (Oct 1998), 4A450
Genetic design of dynamically optimal robotic manipulators, J Syst Control Eng **212**(16) 423-436 (1998), 6A474
Mathematical optimization methodology for the optimal design of a planar robotic manipulator, Int J Numer Methods Eng **44**(4) 535-550 (Feb 1999), 7A420
Synthesis of binary manipulators using the Fourier transform on the Euclidean group, J Mech Des **121**(1) 9-14 (Mar 1999), 7A421
Status monitoring in flexible manipulators, IEE Proc Control Theory Appl **145**(6) 537-550 (Nov 1998), 8A453
Workspace, void, and volume determination of the general 5-dof manipulator, Mech Struct Machines **27**(1) 89-115 (1999), 8A476
Human-assisted virtual environment modeling for robots, Autonomous Robots **6**(1) 89-103 (Jan 1999), 8A477
Information centric approach to heterogeneous multisensor integration for robotic applications, Robotics Autonomous Syst **26**(4) 255-280 (Mar 1999), 9T525
Singularities of a manipulator with offset wrist, J Mech Des **121**(2) 315-319 (Jun 1999), 9A533
Multi-agent systems applications, Robotics Autonomous Syst **27**(1-2) 3-106 (Apr 1999), 10A495
Inverse dynamics of flexible manipulators with Coulomb friction or backlash and non-zero initial conditions, Dyn Control **9**(2) 173-195 (Apr 1999), 11A417
Determination of minimum-time maneuvers for a robotic manipulator using numerical optimization methods, Mech Struct Machines **27**(2) 185-201 (1999), 12A421
Functional arbitration for multipurpose senso-motory systems, Robotics Autonomous Syst **27**(3) 129-150 (May 1999), 12T535
Systems with variable geometry: Concept and prospects, J Dyn Syst Meas Control **121**(2) 308-312 (Jun 1999), 12A536

206Z. Experimental techniques

Intelligent Robotics Systems - SIRS'97, Robotics Autonomous Syst **23**(4) 205-309 (Jul 1998), 3A457
Development of a parallel wire mechanism for measuring position and orientation of a robot end-effector, Mechatronics **8**(8) 845-861 (Dec 1998), 6A428
Design and experiments on a free-floating planar robot for optimal chase and capture operations in space, Robotics Autonomous Syst **26**(4) 281-297 (Mar 1999), 9A531
Monitoring of electromechanical actuator by means of electric measurements (French), Rev Francaise Mec **0**(1) 9-12 (Mar 1999), 10A468
Force oscillations in contact motion of industrial robots: An experimental investigation, IEEE/ASME Trans Mechatronics **4**(1) 86-91 (Mar 1999), 12A537

208. MANUFACTURING

208B. Product and process design

Automating probe selection and part setup planning for inspection on a coordinate measuring machine, Int J Comput Integrated Manuf **11**(5) 448-460 (Sep-Oct 1998), 1A477

Capacitors for integrated circuits produced by means of a double implantation method, J Tech Phys **39**(1) 143-147 (1998), 1T478

Case-based knowledge acquisition model for process planning, J Shanghai Jiaotong Univ **32**(5) 86-89 (May 1998), 1A479

Constraint analysis within CAPP (Chinese), J Shanghai Jiaotong Univ **32**(5) 119-123 (May 1998), 1A480

Decision making model and algorithm for integrating CAPP with PPC (Chinese), J Shanghai Jiaotong Univ **32**(5) 53-56 (May 1998), 1A481

Engineering surfaces - A philosophy of manufacture: A proposal for good manufacturing practice, Proc Inst Mech Eng J Eng Manuf **212**(B3) 169-174 (1998), 1A482

Fast support layout optimization, Int J Machine Tools Manuf **38**(10-11) 1221-1239 (Oct-Nov 1998), 1A483

Function modeling methodology for developing CAPP systems (Chinese), J Shanghai Jiaotong Univ **32**(5) 78-81 (May 1998), 1A484

Implications of modularity on product design for the life cycle, J Mech Des **120**(3) 483-490 (Sep 1998), 1A485

Integrated approach to optimal 3D layout and routing, J Mech Des **120**(3) 510-512 (Sep 1998), 1A486

Integrated product and process design for resin transfer molded parts, J Composite Mat **32**(13) 1244-1272 (1998), 1A487

Knowledge-based simulation design of fuel-pump (Chinese), J Shanghai Jiaotong Univ **32**(5) 104-107 (May 1998), 1A488

Management of product process planning flow based on task-driven (Chinese), J Shanghai Jiaotong Univ **32**(5) 100-103 (May 1998), 1A489

Optimal sub-division of the depth of cut to achieve minimum production cost in multi-pass turning using a genetic algorithm, J Mat Processing Tech **79**(1-3) 101-108 (Jul 1998), 1A490

Plex grammars approach directed to manufacturing feature recognition, Int J Robotics Autom **13**(2) 33-42 (1998), 1A491

Research on concurrent engineering based CAPP system (Chinese), J Shanghai Jiaotong Univ **32**(5) 90-92 (May 1998), 1A492

Reusable product model based on article characteristics (Chinese), J Shanghai Jiaotong Univ **32**(5) 96-99 (May 1998), 1A493

Robust tolerance allocation using stochastic programming, Eng Optim **30**(3-4) 333-350 (May 1998), 1A494

Shelling operation for triangular mesh by vertex offsetting (Japanese), J Japan Soc Precision Eng **64**(6) 835-839 (Jun 1998), 1A495

Uncertainty analysis in geometric best fit, Int J Machine Tools Manuf **38**(10-11) 1323-1342 (Oct-Nov 1998), 1A496

Automated setup planning for lathe machining, J Manuf Syst **17**(3) 196-208 (1998), 1A497

Frame model of integrated CAPP toward PPC (Chinese), J Shanghai Jiaotong Univ **32**(5) 82-85 (May 1998), 1A502

Manufacturing and mechanical properties of glass bubbles-epoxy particulate composite, J Composite Mat **32**(15) 1356-1390 (1998), 1A607

Investigation of AJM for deburring, J Mat Processing Tech **79**(1-3) 52-58 (Jul 1998), 1A788

Australian special issue on manufacturing processes and mechanical properties characterization of advanced composites, Composites Sci Tech **58**(2) 181-309 (Feb 1998), 1A807

Selected papers presented at the Fifth International Conference on automated composites, Glasgow, UK: September 4-5 1997, Composites Part A Appl Sci and Manuf **29A**(7) 711-865 (1998), 1A812

Simulation of metal powder compaction, for the development of a knowledge based powder metallurgy process advisor, J Mat Processing Tech **79**(1-3) 94-100 (Jul 1998), 1A814

Excimer laser surface treatment of sheet molding compound for adhesive bonding, Mat Manuf Processes **13**(3) 359-368 (1998), 1A817

Innovative laser-aided manufacturing of patterned stamping and cutting dies: Processing parameters, Mat Manuf Processes **13**(3) 369-387 (1998), 1T818

Application of the Taguchi method to the optimization of the submerged arc welding process, Mat Manuf Processes **13**(3) 455-467 (1998), 1A1066

Artificial intelligence based techniques for processing segmented images of wood boards, Proc Inst Mech Eng E **212**(E2) 119-129 (1998), 2A540

Application of branch and bound method in divided line balancing problem, Int J Japan Soc Precision Eng **32**(2) 137-143 (Jun 1998), 2A566

Assemblage of particles for intelligent materials, Smart Mat Struct **7**(4) 496-501 (Aug 1998), 2A567

COMPASS: Computer oriented materials, processes, and apparatus selection system, J Manuf Syst **17**(4) 275-286 (1998), 2A568

Computer modeling of the rotational molding process, J Reinforced Plastics Composites **17**(14) 1307-1318 (1998), 2A569

Crack-free and 3D YAG laser processing of glass-ceramics, J Japan Soc Precision Eng **64**(7) 1062-1066 (Jul 1998), 2A570

Design of warp knitted fabrics, Fibres Textiles in E Europe **6**(1) 68-69 (Jan-Mar 1998), 2T571

Development of a micro drilling machine using voice coil motors: Drill thrust measurement and high speed driving, Int J Japan Soc Precision Eng **32**(2) 116-121 (Jun 1998), 2A572

Development of a reconfigurable tool for forming aircraft body panels, J Manuf Syst **17**(4) 287-296 (1998), 2T573

Development of an intelligent tool system for flexible L-bending process of metal sheets, Smart Mat Struct **7**(4) 530-536 (Aug 1998), 2A574

Development of wire-sawing technology for manufacturing compact heat sinks for VLSI packages, Int J Japan Soc Precision Eng **32**(2) 90-97 (Jun 1998), 2A575

Effect of the porous structure of polyacrylonitrile fibers on their hygroscopic properties, Fibres Textiles in E Europe **6**(1) 49-54 (Jan-Mar 1998), 2T576

Parametric studies of the internal structure of 3D woven fabrics, Fibres Textiles in E Europe **6**(1) 60-63 (Jan-Mar 1998), 2A577

Planar surface reconstruction using circle generator laser light, Opt Lasers Eng **30**(1) 39-52 (Jul 1998), 2A578

Surface characteristics of some roller burnished nonferrous components, Mat Manuf Processes **13**(4) 505-515 (1998), 2A776

Rapid tooling for sheet metal forming using profiled edge laminations: Design principles and demonstration, J Manuf Sci Eng **120**(4) 746-754 (Nov 1998), 2A781

Characteristics of laser-fabricated metal structures, Mat Manuf Processes **13**(4) 537-554 (1998), 2A811

Study of parameters for CO_2 laser cutting process, Mat Manuf Processes **13**(4) 517-536 (1998), 2A816

Classification algorithm and optimal feature selection methodology for automated solder joint defect inspection, J Manuf Syst **17**(4) 251-262 (1998), 2A1043

Influence of shielding gas on notch toughness of stainless steel weld metals, Mat Manuf Processes **13**(4) 565-573 (1998), 2T1046

Fabrication of bimetallic rods by explosive cladding and warm extrusion, J Mat Processing Tech **83**(1-3) 48-53 (Nov 1998), 3A474

Stack-up forces for normal and abnormal operating conditions in a railroad roller bearing assembly, J Mech Des **120**(4) 707-713 (Dec 1998), 3A475

Electrochemical etch stop engineering for bulk micromachining, Mechatronics **8**(5) 595-612 (Aug 1998), 3T699

Recognition of machining features based on HSPCE decomposition, feature composition, and process centered classification, J Mech Des **120**(4) 668-677 (Dec 1998), 3A708

Rhenium-97: Milestones, Status, and Outlook, Mat Manuf Processes **13**(5) 645-782 (1998), 3A725

Collaborative, sequential, and isolated decisions in design, J Mech Des **120**(4) 643-652 (Dec 1998), 3A969

Reliability modeling in design for remanufacture, J Mech Des **120**(4) 620-627 (Dec 1998), 3A991

Automated process planning for sheet metal bending operations, J Manuf Syst **17**(5) 338-360 (1998), 4A464

Automatic feature extraction in PRIZCAPP, Int J Comput Integrated Manuf **11**(6) 500-512 (Nov-Dec 1998), 4T465

Boundary penalty FEMs for blending surfaces - I: Basic theory, J Comput Math **16**(5) 457-480 (Sep 1998), 4A466

Categorizing of versions in engineering design and a data model for management of product versions (Chinese), J Huazhong Univ Sci Tech **26**(8) 90-92 (Aug 1998), 4A467

Design optimization of cutting parameters for turning operations based on the Taguchi method, J Mat Processing Tech **84**(1-3) 122-129 (Dec 1998), 4A468

Dimensions analysis and evaluation study in manufacturability evaluation (Chinese), J Huazhong Univ Sci Tech **26**(S1) 24-27 (May 1998), 4A469

Generative CAPP approach based on resource model and feature model, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 45-51 (Jun 1998), 4A470

High speed slurry flow finishing of inner wall of stainless steel capillary - (3rd report): Effect of annexed glass beads on finishing characteristics (Japanese), J Japan Soc Precision Eng **64**(9) 1325-1329 (Sep 1998), 4A471

Low-cost modeler for 2D metal stamping layouts, J Mat Processing Tech **84**(1-3) 79-89 (Dec 1998), 4A472

Off-line modeling and planning of optimal clamping forces for an intelligent fixturing system, Int J Machine Tools Manuf **39**(2) 253-271 (Feb 1999), 4A473

Optimal cutter selection and machining plane determination for process planning and NC machining of complex surfaces, J Manuf Syst **17**(5) 371-388 (1998), 4A474

Process planning strategy for removing arbitrary and axially symmetric profile by a polishing process, Int J Machine Tools Manuf **39**(2) 187-207 (Feb 1999), 4A475

Research on object-oriented and feature-based product modeling in the CAD-CAM integration system of sheet metal parts (Chinese), J Huazhong Univ Sci Tech **26**(8) 26-28 (Aug 1998), 4A476

Reverse engineering: High speed digitization of free-form surfaces by phase-shifting grating projection moire topography, Int J Machine Tools Manuf **39**(3) 389-401 (Mar 1999), 4A477

Study on artificial intelligence and geometric reasoning based on manufacturing automation techniques (Chinese), J Huazhong Univ Sci Tech **26**(8) 1-3 (Aug 1998), 4A478

Waterjet in-process dressing - 1st Report: Dressing property and jet pressure (Japanese), J Japan Soc Precision Eng **64**(9) 1335-1339 (Sep 1998), 4A479

Progress report on the Manufacturing Analysis Service: An Internet-based reference tool, J Manuf Syst **17**(5) 389-398 (1998), 4A500

Volume decomposition approach to process planning for prismatic parts with depression and protrusion design features, Int J Comput Integrated Manuf **11**(6) 548-563 (Nov-Dec 1998), 4A507

Virtual design system for sheet metal forming, J Mat Processing Tech **84**(1-3) 107-116 (Dec 1998), 4A728

Dynamic optimization of multipass milling operations via geometric programming, Int J Machine Tools Manuf **39**(2) 297-320 (Feb 1999), 4A733

Vacuum forming of compound curved surfaces with a variable geometry mold, J Manuf Syst **17**(5) 325-337 (1998), 4A762

Finite element analysis of melting and solidifying processes in laser rapid prototyping of metallic powders, Int J Machine Tools Manuf **39**(2) 237-252 (Feb 1999), 4A764

Extraction of figure of moving part and its hand shape from sequence images for hand gesture recognition, J Japan Soc Precision Eng **64**(10) 1522-1526 (Oct 1998), 5T404

Generation of 3D structure using metal jet, J Japan Soc Precision Eng **64**(10) 1497-1501 (Oct 1998), 5A405

Hierarchical strategies for task-dividing and task-solving in process planning (Chinese), J Huazhong Univ Sci Tech **26**(11) 62-65 (Nov 1998), 5A406

Intelligent control of the thermoplastic composite tow-placement process, J Thermoplastic Composite Mat **11**(6) 573-595 (Nov 1998), 5A407

Method for reconstructing 3D objects from multiple stereo image data - 1st Report: Recognition of noise and reducing digitized error in 2D binary images, J Japan Soc Precision Eng **64**(10) 1451-1455 (Oct 1998), 5A408

Molding of deep polydimethylsiloxane microstructures for microfluidics and biological applications, J Biomech Eng **121**(1) 28-34 (Feb 1999), 5A409

Research on functional information model of product (Chinese), J Beijing IT **18**(3) 296-301 (Jun 1998), 5A410

Robustness estimation for machine tool designs using Taguchi method, J Japan Soc Precision Eng **64**(10) 1502-1506 (Oct 1998), 5A411

Study on the developing tool for compute aided process planning systems (Chinese), J Beijing IT **18**(2) 212-216 (Apr 1998), 5A412

Process planning model based on hierarchical planning and blackboard reasoning (Chinese), J Huazhong Univ Sci Tech **26**(11) 69-71 (Nov 1998), 5A420

Design, manufacture, and characterization of composites using on-line recycled thermoplastic powder impregnation of fibers and in-situ filament winding, J Thermoplastic Composite Mat **11**(6) 533-572 (Nov 1998), 5A634

Automatic human face recognition system, Opt Lasers Eng **30**(3-4) 305-314 (Sep-Oct 1998), 6A421

One-mask procedure for the fabrication of movable high-aspect-ratio 3D microstructures, J Micromech Microeng **8**(4) 279-283 (Dec 1998), 6A442

Algorithms of the cross-coupled precompensation method for generating the involute-type scrolls, J Dyn Syst Meas Control **121**(1) 96-104 (Mar 1999), 6A475

Computer-based selection of manufacturing processes: Methods, software and case studies, Proc Inst Mech Eng J Eng Manuf **212**(B8) 595-610 (1998), 6A476

Deposition strategies and resulting part stiffnesses in Fused Deposition Modeling, J Manuf Sci Eng **121**(1) 93-103 (Feb 1999), 6A477

Direct manufacturing of metallic model by laser rapid prototyping, Int J Japan Soc Precision Eng **32**(3) 221-222 (Sep 1998), 6T478

Effects of exposure time on tackiness and rheology of solder paste, Proc Inst Mech Eng J Eng Manuf **212**(B7) 517-524 (1998), 6A479

Method for tool path generation with surface subdivision, J Japan Soc Precision Eng **64**(11) 1618-1622 (Nov 1998), 6A480

One of case-based reasoning product conceptual design systems (Chinese), J Tsinghua Univ Sci Tech **38**(8) 5-8 (Aug 1998), 6A481

Role of feature models within process integration related to solid freeform fabrication technologies, Int J Japan Soc Precision Eng **32**(3) 213-218 (Sep 1998), 6T482

Study of product manufacturability and evaluation methods (Chinese), J Tsinghua Univ Sci Tech **38**(7) 111-114 (Jul 1998), 6A483

Design and analysis of reconfigurable discrete dies for sheet metal forming, J Manuf Syst **17**(6) 436-454 (1998), 6A792

Time series analysis in metal cutting: Chatter versus chatter-free cutting, Mech Syst Signal Processing **12**(6) 839-854 (Nov 1998), 6A810

Application of immersive virtual reality for layout planning of manufacturing cells, Proc Inst Mech Eng J Eng Manuf **213**(B1) 87-91 (1999), 7A422

Critical tolerance oriented process planning in sheet metal bending, J Mech Des **121**(1) 136-144 (Mar 1999), 7A423

General evaluation of customer requirements during conceptual design, J Mech Des **121**(1) 92-97 (Mar 1999), 7A424

Lapping of ceramic green balls formed by cold isostatic pressure process (Japanese), J Japan Soc Precision Eng **64**(12) 1816-1820 (Dec 1998), 7A425

MEDIATOR: A resource adaptive feature recognizer that intertwines feature extraction and manufacturing analysis, J Mech Des **121**(1) 145-158 (Mar 1999), 7A426

Precision forging design and analysis in electronics part manufacturing, Proc Inst Mech Eng J Eng Manuf **213**(B1) 11-20 (1999), 7A427

Shrinkage analysis of molded parts using neural networks, J Reinforced Plastics Composites **18**(2) 186-195 (1999), 7A428

Study on centrifugal barrel finishing - 2nd Report: Influence of shape and material of workpieces (Japanese), J Japan Soc Precision Eng **64**(12) 1821-1825 (Dec 1998), 7A429

Thermomechanical model for the analysis of light alloy solidification in a composite mold, Int J Solids Struct **36**(16) 2341-2378 (Jun 1999), 7A430

Development of five-axis control processing algorithm for free-formed surfaces using tangent slopes (Japanese), J Japan Soc Precision Eng **64**(12) 1801-1805 (Dec 1998), 7A672

Surface roughness generated by ball-end mill on five-axis controlled machining centers (Japanese), J Japan Soc Precision Eng **64**(12) 1826-1830 (Dec 1998), 7A678

Ceramic membranes: Manufacture, characterization and application in novel bioreactors (Spanish), Sci Eng J (Ciencia Eng) **7**(2) 16-20 (Jul-Dec 1998), 7T686

Turbulent solid-liquid flow through the nozzle of premixed abrasive water jet cutting systems, Proc Inst Mech Eng J Eng Manuf **213**(B1) 59-67 (1999), 7A1062

Study on forming control of a nerve circuit network - 2nd report: Automatic forming and its performance of a nerve circuit network using an elite strategy (Japanese), J Japan Soc Precision Eng **65**(1) 106-110 (Jan 1999), 8A440

Application of artificial neural network and Taguchi method to preform design in metal forming considering workability, Int J Machine Tools Manuf **39**(5) 771-785 (May 1999), 8A478

Automated sample preparation for determination of total siloxanes in hair care products, Lab Robotics Autom **11**(1) 25-28 (1999), 8A479

Contact condition modeling for machining fixture setup processes, Int J Machine Tools Manuf **39**(5) 787-803 (May 1999), 8A480

Cooperative framework for process planning, Int J Comput Integrated Manuf **12**(2) 168-178 (Mar-Apr 1999), 8A481

Discrete manufacturing process design optimization using computer simulation and generalized hill climbing algorithms, Eng Optim **31**(2) 247-260 (Dec 1998), 8A482

Evaluation system for the process planning difficulty in different manufacturing culture, J Japan Soc Precision Eng **65**(1) 85-89 (Jan 1999), 8T483

Evolution in manufacturing systems: From mass production to high value added production (Japanese), J Japan Soc Precision Eng **65**(1) 13-18 (Jan 1999), 8T484

Fast planning algorithm of bending sequences for progressive press-working (Japanese), J Japan Soc Precision Eng **65**(2) 267-271 (Feb 1999), 8A485

Geometrical parameter estimation for industrial manipulators using two-step estimation schemes, J Intelligent & Robotic Syst **24**(1) 89-97 (Jan 1999), 8A486

Integrated product concepts development and evaluation, Int J Comput Integrated Manuf **12**(2) 179-190 (Mar-Apr 1999), 8A487
Move-to-contact facility for modeling mechanical assembly and simulation, Int J Machine Tools Manuf **39**(5) 683-704 (May 1999), 8A488
Optimization on fixture design for plate shaped workpieces in terms of flatness error due to cutting heat in finish face milling (Japanese), J Japan Soc Precision Eng **65**(2) 229-233 (Feb 1999), 8A489
Thermo-mechanical modeling of orthogonal machining process by FE analysis, Int J Machine Tools Manuf **39**(5) 731-750 (May 1999), 8A490
Three-dimensional pattern projection using computer-generated Fresnel hologram (Japanese), J Japan Soc Precision Eng **65**(1) 141-144 (Jan 1999), 8A491
Towards a unified representation of quality in manufacturing systems, Int J Comput Integrated Manuf **12**(2) 141-155 (Mar-Apr 1999), 8T492
Highly efficient and precision fabrication of cylindrical parts from hard materials with the application of electrolytic in-process dressing, Mat Manuf Processes **14**(1) 1-12 (1999), 8A710
Three-dimensional surface characterization for orthopaedic joint prostheses, Proc Inst Mech Eng H **213**(H1) 49-68 (1999), 8A1622
Applying object-oriented database technologies in concurrent design processes, Int J Comput Integrated Manuf **12**(3) 251-264 (May-Jun 1999), 9T534
Architecture for form feature modeling for concurrent, cooperative and consistent product design, JSME Int J Ser C **40**(3) 533-539 (Sep 1997), 9A535
Computer-aided operation planning system for automatic machining of injection mold die, JSME Int J Ser C **40**(4) 793-800 (Dec 1997), 9A536
Continuous four-roll plate bending: A production process for the manufacture of single seamed tubes of large and medium diameters, Int J Machine Tools Manuf **39**(6) 905-935 (Jun 1999), 9A537
DFA-oriented assembly relation modeling, Int J Comput Integrated Manuf **12**(3) 238-250 (May-Jun 1999), 9T538
Effects of over coated metal for the mechanical property improvement of bond bridge of porous metal bonded diamond wheel, Int J Japan Soc Precision Eng **32**(4) 275-277 (Dec 1998), 9T539
Experimental investigation of the survivability and friction characteristics of tin-coated and polymer-laminated steels, J Manuf Sci Eng **121**(2) 232-237 (May 1999), 9A540
Improved workpiece location accuracy through fixture layout optimization, Int J Machine Tools Manuf **39**(6) 871-883 (Jun 1999), 9A541
Integrated knowledge-based approach and system for product design for assembly, Int J Comput Integrated Manuf **12**(3) 211-237 (May-Jun 1999), 9A542
Intelligent product manuals, J Syst Control Eng **213**(I1) 65-76 (1999), 9T543
Machine assembly-disassembly planning by cooperative agents, JSME Int J Ser C **41**(4) 947-952 (Dec 1998), 9A544
New approach on modeling for product development: The basic concept of functional model, JSME Int J Ser C **42**(1) 234-239 (Mar 1999), 9A545
On-line estimation of time-variant thermal load applied to machine tool structures using a s-domain inverse solution, Int J Machine Tools Manuf **39**(6) 985-1000 (Jun 1999), 9A546
Unified framework for the development of automated manufacturing systems supervisory software for the pharmaceutical industry, Int J Comput Integrated Manuf **12**(3) 193-210 (May-Jun 1999), 9A547
Variation risk management using modeling and simulation, J Mech Des **121**(2) 297-304 (Jun 1999), 9A548
Automation of Kanban modeling through object-oriented visual-interactive simulation, Int J Comput Integrated Manuf **12**(3) 265-277 (May-Jun 1999), 9T549
Manufacturing and testing of thermoplastic composite high load hinge, J Thermoplastic Composite Mat **12**(2) 133-142 (Mar 1999), 9A628
Computer simulations in abrasive grinding process, Int J Japan Soc Precision Eng **32**(4) 233-238 (Dec 1998), 9A783
Study on dynamical investigation of OD-blade cutting utilizing vibration in vertical direction, Int J Japan Soc Precision Eng **32**(4) 254-259 (Dec 1998), 9A785
Computer simulation of laser materials processing, Int J Japan Soc Precision Eng **32**(4) 243-247 (Dec 1998), 9A788
Computer simulation of microcutting, Int J Japan Soc Precision Eng **32**(4) 239-242 (Dec 1998), 9A789
Dimensional measurement data analysis - Part 1: A zone fitting algorithm, J Manuf Sci Eng **121**(2) 238-245 (May 1999), 9A1070
Dimensional measurement data analysis - Part 2: Minimum zone evaluation, J Manuf Sci Eng **121**(2) 246-250 (May 1999), 9A1071
Computer simulation of 3D dynamic assembly process of mechanical rotational body, Chinese J Mech Eng **11**(3) 171-175 (Sep 1998), 10A489
Freeform curve and surface modeling using 3D measured points (Japanese), J Japan Soc Precision Eng **65**(3) 381-385 (Mar 1999), 10A490
Analysis of fuzzy dynamic characteristics of machine cutting process: Fuzzy stability analysis in regenerative-type-chatter, Int J Machine Tools Manuf **39**(8) 1299-1309 (Aug 1999), 10A801
Analyzing the process behavior of abrasive reaming using an experimental approach, Int J Machine Tools Manuf **39**(8) 1311-1325 (Aug 1999), 10A802
Modeling yarn tension in the process of manufacturing on the ring-spinning machine, Fibres Textiles in E Europe **6**(3) 30-33 (Jul-Aug 1998), 11A222
Improved trajectory planner for redundant manipulators in constrained workspace, J Robotic Syst **16**(6) 339-351 (Jun 1999), 11A416
Automation of centered micro hole drilling using a magnetically levitated table, Int J Machine Tools Manuf **39**(9) 1409-1426 (Sep 1999), 11A426
Changes in cotton fiber linear density and maturity during the spinning process, Fibres Textiles in E Europe **6**(3) 20-22 (Jul-Aug 1998), 11T427
Combination of air-spindle with permanent magnetic bearing for improved rotational accuracy and stiffness (Japanese), J Japan Soc Precision Eng **65**(4) 615-619 (Apr 1999), 11A428
Effect of stack height on high-speed orientation and stacking of parts based on internal features, Int J Robotics Autom **14**(1) 23-32 (1999), 11A429
Finite element analysis of hydro-forming process of a toroidal shell, Int J Machine Tools Manuf **39**(9) 1439-1450 (Sep 1999), 11A430
Flow properties of soft cheese type *Fromage Frais*, Appl Mech Eng **4**(S) 461-466 (1999), 11T431
Improved properties of polymers under hydrostatic pressure, Mat Manuf Processes **14**(3) 427-433 (1999), 11T432
Intelligent jig system to automated flexible manufacturing system, J Intelligent & Robotic Syst **25**(1) 61-77 (May 1999), 11A433
Shape memory alloys for use in thermally activated clothing systems, Appl Mech Eng **4**(S) 423-428 (1999), 11T434
Simulation of diamond-ground surfaces, Int J Machine Tools Manuf **39**(9) 1451-1470 (Sep 1999), 11A435
Special issue International Journal of Vehicle Design, Int J Vehicle Des **21**(1) 1-121 (1999), 11A436
Thermal model for high speed motorized spindles, Int J Machine Tools Manuf **39**(9) 1345-1366 (Sep 1999), 11A437
Why do the spheres stay suspended in orbitz (sometimes!)?, Appl Mech Eng **4**(S) 447-454 (1999), 11T438
Electron beam technologies for preparation of polymeric materials used for waste water treatment, agriculture, and medicine, Mat Manuf Processes **14**(3) 347-364 (1999), 11T722
Research of centerless roller burnishing - 1st Report: Development of centerless roller burnishing equipment to finish an external surface without clamping device (Japanese), J Japan Soc Precision Eng **65**(4) 610-614 (Apr 1999), 11T726
Step height differences between simultaneously mirror-polished work surfaces composed of various materials: Study on super-smooth polishing methods - 1st Report (Japanese), J Japan Soc Precision Eng **65**(4) 575-580 (Apr 1999), 11A727
Potential of the internal plasma spray technology for the coating of cylinder bores on AlSi cast alloy, Trib **30**(1) 7-20 (1999), 11A981
Component specifications for robotics integration, Autonomous Robots **6**(3) 247-264 (Jun 1999), 12A453
Development of computer assisted systems for manufacturing dental prosthetic - Part III: Development of 3D measuring device for dental CAD-CAM system (Japanese), J Japan Soc Precision Eng **65**(5) 741-745 (May 1999), 12A538
Diamond hydrosynthesis from the liquid phase, Arch Naukio Mat **19**(2) 93-105 (1998), 12T539
Long-length line for jacketing cable-in-conduit conductors, Fusion Eng Des **45**(2) 209-216 (May 1999), 12A540
Machined surface properties of C-C composite material - Part I: Machined surface properties and built-up residue on plain-woven composite surface (Japanese), J Japan Soc Precision Eng **65**(5) 719-724 (May 1999), 12T541
Nanocomposite Sialon-Al_2O_3 prepared by self propagating high temperature synthesis (Polish), Arch Naukio Mat **19**(3) 167-177 (1998), 12A542
New tooth finishing method with cBN wheel for involute internal spline: Improvement of tooth accuracy with slant traverse method, Int J Japan Soc Precision Eng **33**(1) 21-26 (Mar 1999), 12A543
Production of advanced ceramics via solid combustion, Arch Naukio Mat **19**(2) 77-91 (1998), 12A544
Problem of fancy yarn modeling, Fibres Textiles in E Europe **7**(2) 32-34 (Apr-Jun 1999), 12A622
Cuttability investigation of coated carbides, Mat Manuf Processes **14**(4) 559-580 (1999), 12T725
Development of a tougher grade of polycrystalline diamond cutting tool, Int J Japan Soc Precision Eng **33**(1) 6-9 (Mar 1999), 12A726
Micro-macro studies in mechanical behavior of manufacturing materials, J Mech Behavior Mat **10**(2) 61-134 (1999), 12T731
New dressing method for superabrasive wheels utilizing magnetic abrasive polishing, Int J Japan Soc Precision Eng **33**(1) 27-31 (Mar 1999), 12A738
Laser processing of MMC layers on a metal base, Mat Manuf Processes **14**(4) 475-487 (1999), 12T752
Design and manufacturing of the human bone endoprostheses using computer-aided systems, J Theor Appl Mech **37**(3) 481-503 (1999), 12A1657

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Coordinated position control of multi-axis mechanical systems, J Dyn Syst Meas Control **120**(3) 389-393 (Sep 1998), 1A423
Reduced model control of a plasma deposition process, J Dyn Syst Meas Control **120**(3) 398-401 (Sep 1998), 1A436
Automating probe selection and part setup planning for inspection on a coordinate measuring machine, Int J Comput Integrated Manuf **11**(5) 448-460 (Sep-Oct 1998), 1A477
Constraint analysis within CAPP (Chinese), J Shanghai Jiaotong Univ **32**(5) 119-123 (May 1998), 1A480
Decision making model and algorithm for integrating CAPP with PPC (Chinese), J Shanghai Jiaotong Univ **32**(5) 53-56 (May 1998), 1A481
Research on concurrent engineering based CAPP system (Chinese), J Shanghai Jiaotong Univ **32**(5) 90-92 (May 1998), 1A492
Automated setup planning for lathe machining, J Manuf Syst **17**(3) 196-208 (1998), 1A497
Control architectures for manufacturing systems and their evolution (Chinese), J Shanghai Jiaotong Univ **32**(5) 128-132 (May 1998), 1A498
Design-to-manufacture case study: Automatic design of post-fabrication mechanisms for tubular components, J Manuf Syst **17**(3) 183-195 (1998), 1A499
Development of a testing mahcine for three point bending of ceramics in controlled crack extension (Japanese), J Japan Soc Precision Eng **64**(6) 871-874 (Jun 1998), 1A500
Effect in charge transfer efficiency on image quality in CCD line scan-based web inspection, Opt Lasers Eng **29**(6) 385-401 (Jun 1998), 1A501
Frame model of integrated CAPP toward PPC (Chinese), J Shanghai Jiaotong Univ **32**(5) 82-85 (May 1998), 1A502
Integrated system of CAPP and PPC based on integration workbench (Chinese), J Shanghai Jiaotong Univ **32**(5) 74-77 (May 1998), 1A503
Local sampling phase shifting techique for precise surface profile measurement (Japanese), J Japan Soc Precision Eng **64**(6) 856-860 (Jun 1998), 1A504
Machine vision based inspection of oil seals, J Manuf Syst **17**(3) 159-166 (1998), 1A505
Machining algebra for mapping volumes to machining operations for developing extensible generative CAPP, J Manuf Syst **17**(3) 167-182 (1998), 1T506
Manufacturing feature to support integrated and concurrent CAD-CAPP-CAM (Chinese), J Shanghai Jiaotong Univ **32**(5) 93-95 (May 1998), 1A507
Manufacturing systems and mechatronics (Japanese), J Japan Soc Precision Eng **64**(6) 813-818 (Jun 1998), 1T508
Object-oriented analysis and design method for shop floor control systems, Int J Comput Integrated Manuf **11**(5) 379-400 (Sep-Oct 1998), 1A509
Object-oriented parametered model in group technology (Chinese), J Shanghai Jiaotong Univ **32**(5) 57-60 (May 1998), 1A510
Standard based framework for the development of manufacturing control systems, Int J Comput Integrated Manuf **11**(5) 401-415 (Sep-Oct 1998), 1T511
TDI imaging: A tool for profilometry and automated visual inspection, Opt Lasers Eng **29**(6) 403-411 (Jun 1998), 1A512
Development of a laser Doppler system for in-process evaluation of diameters on computer numerical controlled turning machines, Proc Inst Mech Eng J Eng Manuf **212**(B3) 183-194 (1998), 1A782
Gelcast tooling: Net shape casting and Green machining, Mat Manuf Processes **13**(3) 389-403 (1998), 1T804
Application of optical cutting method to measurement of tooth-profile error of minute module gears - 2nd Report: Measurements of total profile error, J Japan Soc Precision Eng **64**(6) 866-870 (Jun 1998), 1T815
Structural deformation sensor to obtain operational information (Japanese), J Japan Soc Precision Eng **64**(6) 875-880 (Jun 1998), 1A936
Application of the Taguchi method to the optimization of the submerged arc welding process, Mat Manuf Processes **13**(3) 455-467 (1998), 1A1066
Adaptive control of the WEDM process using the fuzzy control strategy, J Manuf Syst **17**(4) 263-274 (1998), 2A534
Difference driven design for machine control programs, J Japan Soc Precision Eng **64**(7) 1096-1100 (Jul 1998), 2T541
COMPASS: Computer oriented materials, processes, and apparatus selection system, J Manuf Syst **17**(4) 275-286 (1998), 2A568
Development of a reconfigurable tool for forming aircraft body panels, J Manuf Syst **17**(4) 287-296 (1998), 2T573
Accuracy analysis of point laser triangulation probes using simulation, J Manuf Sci Eng **120**(4) 736-745 (Nov 1998), 2A579
Basic LOgical bulk shapes for FE hexahedral mesh generation to support virtual prototyping, J Manuf Sci Eng **120**(4) 728-735 (Nov 1998), 2A580
Comparative analysis of cotton parameters obtained from the AFIS system and according to GOST, Fibres Textiles in E Europe **6**(1) 22-24 (Jan-Mar 1998), 2T581
Developing AGVS Petri net control models from flowpath nets, J Manuf Syst **17**(4) 237-250 (1998), 2A582
Development of statistical tolerancing system for optical products: Virtual PT system and mass product simulation, J Japan Soc Precision Eng **64**(7) 1090-1095 (Jul 1998), 2A583
Diagnosis of multiple fixture faults in panel assembly, J Manuf Sci Eng **120**(4) 793-801 (Nov 1998), 2A584
High speed 3D shape measurement using a non-scanning multiple-beam confocal imaging sensor, J Japan Soc Precision Eng **64**(7) 1022-1028 (Jul 1998), 2A585
In-situ cure monitoring using optical fiber sensors: A comparative study, Smart Mat Struct **7**(4) 557-568 (Aug 1998), 2A586
Integrated model of the material handling system and unit load design problem, J Manuf Sci Eng **120**(4) 802-806 (Nov 1998), 2A587
Precision table control system using friction drive for optical disk mastering machine, Int J Japan Soc Precision Eng **32**(2) 122-126 (Jun 1998), 2A588
Progress on "Kansei" measurement technology and its application to visual inspection, Int J Japan Soc Precision Eng **32**(2) 85-89 (Jun 1998), 2A589
Study of optical measuring method for surface roughness of cast metals, Int J Japan Soc Precision Eng **32**(2) 127-132 (Jun 1998), 2T590
Survey of factory control algorithms that can be implemented in a multi-agent heterarchy: Dispatching, scheduling, and pull, J Manuf Syst **17**(4) 297-330 (1998), 2T591
Characteristics of laser-fabricated metal structures, Mat Manuf Processes **13**(4) 537-554 (1998), 2A811
Application of image processing to automatic weld inspection and welding process control, Int J Japan Soc Precision Eng **32**(2) 81-84 (Jun 1998), 2A1042
Classification algorithm and optimal feature selection methodology for automated solder joint defect inspection, J Manuf Syst **17**(4) 251-262 (1998), 2A1043
Intelligent control for handling motion nonlinearity in a retrofitted machining table, IEE Proc Control Theory Appl **145**(4) 403-408 (Jul 1998), 3A414
Artificial intelligence in the environment of manufacturing, Proc Estonian Acad Sci Eng **4**(3) 178-188 (Sep 1998), 3T476
Automating the flexible lofting spline for reusable forming devices, J Mech Des **120**(4) 695-701 (Dec 1998), 3A477
Close look at the rough terrain of surface finish assessment, Proc Inst Mech Eng J Eng Manuf **212**(B5) 411-420 (1998), 3A478
Effect of sampling in circular substitute geometries evaluation, Int J Machine Tools Manuf **39**(1) 55-85 (Jan 1998), 3A479
Measurement and diagnostics of machine tool errors during circular contouring motions, Proc Inst Mech Eng J Eng Manuf **212**(B5) 343-355 (1998), 3A480
Optimal control of a stochastic assembly production line, J Optim Theory Appl **98**(3) 681-700 (Sep 1998), 3A481
Potential of piezoelectric elements in the monitoring of composite manufacturing process, J Intelligent Mat Syst Struct **8**(12) 1073-1078 (Dec 1997), 3A482
Solution techniques for periodic control problems: A case study in production planning, Optimal Control Appl Methods **19**(3) 185-203 (May-Jun 1998), 3T483
Solving scheduling problems by simulated annealing, SIAM J Control Optim **36**(5) 1539-1575 (Sep 1998), 3T484
Fast time constant estimation for plunge grinding process control, Int J Machine Tools Manuf **39**(1) 143-156 (Jan 1998), 3A710
Approach to modeling and representation of heterogeneous objects, J Mech Des **120**(4) 659-667 (Dec 1998), 3A976
Integrated CAD system for the blanking of irregular-shaped sheet metal products, J Mat Processing Tech **83**(1-3) 84-97 (Nov 1998), 3A979
Automated process planning for sheet metal bending operations, J Manuf Syst **17**(5) 338-360 (1998), 4A464

Automatic feature extraction in PRIZCAPP, Int J Comput Integrated Manuf **11**(6) 500-512 (Nov-Dec 1998), 4T465
Generative CAPP approach based on resource model and feature model, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 45-51 (Jun 1998), 4A470
Optimal cutter selection and machining plane determination for process planning and NC machining of complex surfaces, J Manuf Syst **17**(5) 371-388 (1998), 4A474
Algorithms for self-learning scheduling in FMS-AGV transportation system (Chinese), J Shanghai Jiaotong Univ **32**(6) 83-87 (Jun 1998), 4A480
Application of the Taguchi method and new hatch styles for quality improvement in stereolithography, Proc Inst Mech Eng J Eng Manuf **212**(B6) 461-472 (1998), 4A481
Computer integrated manufacturing system for rotational parts, Int J Comput Integrated Manuf **11**(6) 534-547 (Nov-Dec 1998), 4A482
Control performance of 3dof micro-moving stage using motional mode decoupling control together with collocation compensator (Japanese), J Japan Soc Precision Eng **64**(9) 1375-1379 (Sep 1998), 4A483
Development od drilling optimization strategies for CAM applications, J Mat Processing Tech **84**(1-3) 181-188 (Dec 1998), 4A484
Development of 3D profile measuring apparatus for microparts: Measuring principle and measuring results (Japanese), J Japan Soc Precision Eng **64**(9) 1395-1399 (Sep 1998), 4A485
Effect of various parameters on the surface roughness of an aluminium alloy burnished with a spherical surfaced polycrystalline diamond tool, Int J Machine Tools Manuf **39**(3) 459-469 (Mar 1999), 4A486
Fuzzy neural network method for shop production rescheduling (Chinese), J Huazhong Univ Sci Tech **26**(7) 65-67 (Jul 1998), 4A487
Genetic algorithm approach for manufacturing cell formation (Chinese), J Shanghai Jiaotong Univ **32**(8) 73-76 (Aug 1998), 4A488
Global dynamic dispatching algorithm for workshops scheduling (Chinese), J Huazhong Univ Sci Tech **26**(8) 20-22 (Aug 1998), 4A489
High precision positioning control using high-power electrostatic linear drive (Japanese), J Japan Soc Precision Eng **64**(9) 1385-1389 (Sep 1998), 4A490
Influence of ash compositions on the behavior of heavy metal in melting process (Japanese), Proc JSCE **601**(VII-8) 59-71 (Aug 1998), 4A491
Integration infrastructure requirements for agile manufacturing systems, Proc Inst Mech Eng J Eng Manuf **212**(B6) 423-437 (1998), 4A492
Interaction-prediction approach to solving problems of hierarchical production planning in flexible automation workshops, Int J Comput Integrated Manuf **11**(6) 513-523 (Nov-Dec 1998), 4A493
Investigation of electronic packaging materials by using a 6-axis mini thermo-mechanical tester, Int J Solids Struct **36**(1) 65-78 (Jan 1999), 4A494
Knowledge-based systems approach to the development of accurate and realistic master production schedules, Proc Inst Mech Eng J Eng Manuf **212**(B6) 453-460 (1998), 4A495
Modeling of manufacturing systems and production routes using colored Petri nets, Int J Robotics Autom **13**(3) 96-100 (1998), 4A496
Open framework of the tools of virtual manufacturing development (Chinese), J Huazhong Univ Sci Tech **26**(8) 18-19 (Aug 1998), 4A497
Optical telemetering of temperature information in rotating spindle - 2nd Report: Extension of measuring period and measurement in the case with thermocouple hot junction short-circuited to spindle (Japanese), J Japan Soc Precision Eng **64**(9) 1355-1359 (Sep 1998), 4A498
Profile measurement using Abramson interferometer by one-step phase shifting method (Japanese), J Japan Soc Precision Eng **64**(9) 1380-1384 (Sep 1998), 4A499
Progress report on the Manufacturing Analysis Service: An Internet-based reference tool, J Manuf Syst **17**(5) 389-398 (1998), 4A500
Proposal of PDSV method estimating shape of corresponding region on right and left images (Japanese), J Japan Soc Precision Eng **64**(9) 1390-1394 (Sep 1998), 4A501
Research on the pipeline building quality expert system (Chinese), J Xi'an Jiaotong Univ **32**(10) 92-96 (1998), 4A502
Role interaction approach to support manufacturing enterprise integration, Proc Inst Mech Eng J Eng Manuf **212**(B6) 439-451 (1998), 4A503
Sheet metal products: Database in support of their process planning and surface development, Int J Comput Integrated Manuf **11**(6) 524-533 (Nov-Dec 1998), 4T504
Surface topography of machined fiber reinforced plastics obtained by stylus instruments and optical profilometers, Proc Inst Mech Eng J Eng Manuf **212**(B6) 479-488 (1998), 4A505
Towards a fault tolerant cell controller for flexible assembly systems: An approach using colour Petri-Nets, Mechatronics **8**(7) 747-764 (Oct 1998), 4A506
Volume decomposition approach to process planning for prismatic parts with depression and protrusion design features, Int J Comput Integrated Manuf **11**(6) 548-563 (Nov-Dec 1998), 4A507
Generation of NC instruction codes for multi-axes machine tool by simulation of machine tool motion (Japanese), J Japan Soc Precision Eng **64**(9) 1365-1369 (Sep 1998), 4A736
Runner-optimization design study of a die-casting die, J Mat Processing Tech **84**(1-3) 1-12 (Dec 1998), 4A754
Potential benefits of terminal airspace traffic automation for arrivals, J Guidance Control Dyn **21**(6) 909-915 (Nov-Dec 1998), 5T374
Hierarchical strategies for task-dividing and task-solving in process planning (Chinese), J Huazhong Univ Sci Tech **26**(11) 62-65 (Nov 1998), 5A406
Study on the developing tool for compute aided process planning systems (Chinese), J Beijing IT **18**(2) 212-216 (Apr 1998), 5A412
Correction method of random shift error for 4-step phase shifting ESPI, J Japan Soc Precision Eng **64**(10) 1507-1511 (Oct 1998), 5A413
Development and realization mechanism of concurrent engineering, J Beijing IT **7**(1) 67-72 (Mar 1998), 5A414
Hierarchical strategies for reasoning and knowledge management in process planning (Chinese), J Huazhong Univ Sci Tech **26**(11) 66-68 (Nov 1998), 5A415
Identification of a multivariable interval dynamic model from measurements in the frequency domain, Proc Inst Mech Eng C **212**(C7) 595-604 (1998), 5A416
Minimization of effect of CBN wheel wear on ground gear errors, Int J Machine Tools Manuf **39**(4) 607-626 (Apr 1999), 5A417
On-line free form surface measurement via a fuzzy-logic controlled scanning probe, Int J Machine Tools Manuf **39**(4) 537-552 (Apr 1999), 5A418
Optical encoder using metallic surface grating, J Japan Soc Precision Eng **64**(10) 1532-1536 (Oct 1998), 5A419
Process planning model based on hierarchical planning and blackboard reasoning (Chinese), J Huazhong Univ Sci Tech **26**(11) 69-71 (Nov 1998), 5A420
Clamping characteristics of pin-type vacuum chuck - 1st Report: Influence of back-surface waviness on wafer flatness, J Japan Soc Precision Eng **64**(10) 1517-1521 (Oct 1998), 5A623
Development of tool grinding CAD-CAM system for conicoid end mill, J Japan Soc Precision Eng **64**(10) 1456-1460 (Oct 1998), 5A630
Experimental and theoretical load data for design and integrity evaluations, Exp Tech **22**(6) 19-22 (Nov-Dec 1998), 5A801
Analytical approach for using simulation in real-time decision making in FMSs, J Manuf Syst **17**(6) 418-435 (1998), 6A484
Application of the Taguchi method for consistent polymer melt production in injection molding, Proc Inst Mech Eng J Eng Manuf **212**(B8) 611-620 (1998), 6A485
Classification and methodologies for orientation and stacking of parts based on internal features, J Manuf Syst **17**(6) 455-475 (1998), 6T486
Computer comparison of design knowledge, Proc Inst Mech Eng J Eng Manuf **212**(B8) 635-645 (1998), 6A487
Computer-aided mold engraving: From point-data smoothing, NC machining, to accuracy checking, J Mat Processing Tech **86**(1-3) 101-114 (Feb 1999), 6A488
Control performances of leadscrew positioning systems with intelligent control methods, J Japan Soc Precision Eng **64**(11) 1627-1632 (Nov 1998), 6A489
Deformation and profile measurement using the digital projection grating method, Opt Lasers Eng **30**(5) 367-377 (Nov 1998), 6A490
Design and simulation of an entry edge guide control system for tandem cold mills, J Manuf Sci Eng **121**(1) 69-75 (Feb 1999), 6A491
Development of virtual coordinate measuring machines incorporating probe errors, Proc Inst Mech Eng J Eng Manuf **212**(B7) 533-548 (1998), 6A492
Development of virtual shop floor based on open system architecture - 2nd Report: Implementation of distributed and parallel simulation system, J Japan Soc Precision Eng **64**(11) 1613-1617 (Nov 1998), 6A493
Dimensional control of stampings by grid strain measurement, J Manuf Sci Eng **121**(1) 84-86 (Feb 1999), 6A494
Holographic contouring using double-source technique and Fourier transform analysis, Opt Lasers Eng **30**(3-4) 351-362 (Sep-Oct 1998), 6A495
Impact fracture of screws for disassembly, J Manuf Sci Eng **121**(1) 118-126 (Feb 1999), 6A496
In-process measurement and workpiece-referred form accuracy control - 7th Report: Controlled cutting with reference surface for central part and expansion to periphery, J Japan Soc Precision Eng **64**(11) 1689-1693 (Nov 1998), 6A497
Integrated and intelligent network management system model (Chinese), J Shanghai Jiaotong Univ **32**(10) 91-94 (Oct 1998), 6A498
Kinematic model of assembly using contact constraint representation in configuration space - 3rd Report: Introduction of time into contact constraint representation, J Japan Soc Precision Eng **64**(11) 1608-1612 (Nov 1998), 6A499
Laser displacement meter application for milling diagnostics, Opt Lasers Eng **30**(3-4) 251-263 (Sep-Oct 1998), 6A500
Neural adaptive control for positioning fabric on a frictional surface, J Manuf Sci Eng **121**(1) 127-133 (Feb 1999), 6A501
On-line monitoring system to recognize stitch defects through thread motion and high speed image analyses, J Manuf Sci Eng **121**(1) 104-108 (Feb 1999), 6A502
Research and implementation of top-down assembly modeling system (Chinese), J Tsinghua Univ Sci Tech **38**(8) 12-14 (Aug 1998), 6A503
Roughness measurement of metallic surfaces based on the laser speckle contrast method, Opt Lasers Eng **30**(5) 433-440 (Nov 1998), 6A504
Sensor optimization for fault diagnosis in single fixture systems: A methodology, J Manuf Sci Eng **121**(1) 109-117 (Feb 1999), 6A505
Spherical Gaussian beam model for prediction of 3D fringe patterns in a laser Doppler anemometer measuring volume, Opt Lasers Eng **30**(3-4) 287-297 (Sep-Oct 1998), 6A506
Study of workflow technology in CIMS application integration platform (Chinese), J Tsinghua Univ Sci Tech **38**(8) 125-128 (Aug 1998), 6A507
Visual sensing system for measuring parts deformation and misalignments in flexible parts assembly, Opt Lasers Eng **30**(5) 379-401 (Nov 1998), 6A508
Design and analysis of reconfigurable discrete dies for sheet metal forming, J Manuf Syst **17**(6) 436-454 (1998), 6A792
Analysis of the motion accuracy of 5-axis controlled machining centers using DBB method, Int J Japan Soc Precision Eng **32**(3) 188-193 (Sep 1998), 6A796
Tool path generation using C-space for 5-axis control machining, J Manuf Sci Eng **121**(1) 144-149 (Feb 1999), 6A811
Use of thermal imaging, temperature and distortion models for machine tool thermal error reduction, Proc Inst Mech Eng J Eng Manuf **212**(B8) 671-679 (1998), 6A812
CAD-DAM integration based on STEP standard (Chinese), J Tsinghua Univ Sci Tech **38**(7) 115-119 (Jul 1998), 6A1107
Complete control system proposal for an alcohol plant (Spanish), Sci Eng J (Ciencia Eng) **7**(2) 52-59 (Jul-Dec 1998), 7A431
Construction accuracy of beam type Maglev guideway (Japanese), Proc JSCE **609**(VI41) 29-38 (Dec 1998), 7T432
Design of components and manufacturing system for material handling in CIM, Int J Comput Integrated Manuf **12**(1) 39-53 (Jan-Feb 1999), 7T433
Efficient generation of reflection lines to evaluate car body surfaces, Math Eng Industry **7**(2) 233-250 (1999), 7A434
Feature-based modeling and neural networks-based CAPP for integrated manufacturing, Int J Comput Integrated Manuf **12**(1) 61-74 (Jan-Feb 1999), 7T435
Flow control of multi-level assembly systems, Int J Comput Integrated Manuf **12**(1) 84-95 (Jan-Feb 1999), 7T436
High precision 3D coordinate measuring by two CCD cameras system (Japanese), J Japan Soc Precision Eng **64**(12) 1752-1756 (Dec 1998), 7A437
In-process measurement and workpiece referred form accuracy control - 6th Report: The influence of the control start point and the sensing position for a facing lathe (Japanese), J Japan Soc Precision Eng **64**(12) 1806-1810 (Dec 1998), 7T438
Machine tool thermal error reduction: An appraisal, Proc Inst Mech Eng J Eng Manuf **213**(B1) 1-9 (1999), 7A439
New coordinate measuring machine using parallel mechanism: Fundamentals and kinematics (Japanese), J Japan Soc Precision Eng **64**(12) 1791-1795 (Dec 1998), 7A440
New criterion for quality monitoring of pulsed laser spot welding using an infrared sensor - Part 1: The radiation feature as a criterion for quality monitoring, Proc Inst Mech Eng J Eng Manuf **213**(B1) 41-49 (1999), 7A441
New criterion for quality monitoring of pulsed laser spot welding using an infrared sensor - Part 2: Quality estimation using an artificial neural network, Proc Inst Mech Eng J Eng Manuf **213**(B1) 51-57 (1999), 7A442
Object-oriented design of the control software for a flexible manufacturing system, Int J Comput Integrated Manuf **12**(1) 1-14 (Jan-Feb 1999), 7A443
Optical evaluation method for run-out error of high precision spindle by separating rotational error with tool chucking error (Japanese), J Japan Soc Precision Eng **64**(12) 1785-1790 (Dec 1998), 7A444
WWW computer integrated manufacturing environment for rapid prototyping and education, Int J Comput Integrated Manuf **12**(1) 54-60 (Jan-Feb 1999), 7A445
Predictable scheduling of a single machine subject to breakdowns, Int J Comput Integrated Manuf **12**(1) 15-38 (Jan-Feb 1999), 7T448
Visualized human-computer interactive approach to job shop scheduling, Int J Comput Integrated Manuf **12**(1) 75-83 (Jan-Feb 1999), 7T449
Human motion recognition in machine tool operation: System using gyro-acceleration sensor and DP matching (Japanese), J Japan Soc Precision Eng **64**(12) 1747-1751 (Dec 1998), 7A1627
Kinematic and dynamic models of hybrid robot manipulator for propeller grinding, J Robotic Syst **16**(3) 137-150 (Mar 1999), 8A464
Cooperative framework for process planning, Int J Comput Integrated Manuf **12**(2) 168-178 (Mar-Apr 1999), 8A481
Fast planning algorithm of bending sequences for progressive press-working (Japanese), J Japan Soc Precision Eng **65**(2) 267-271 (Feb 1999), 8A485
Integrated product concepts development and evaluation, Int J Comput Integrated Manuf **12**(2) 179-190 (Mar-Apr 1999), 8A487
Towards a unified representation of quality in manufacturing systems, Int J Comput Integrated Manuf **12**(2) 141-155 (Mar-Apr 1999), 8T492
Analysis of polishing mechanisms by viscoelasticity dynamic behavior of polishing pads (Japanese), J Japan Soc Precision Eng **65**(2) 219-223 (Feb 1999), 8A493
Data reduction in integrated reverse engineering and rapid prototyping, Int J Comput Integrated Manuf **12**(2) 97-103 (Mar-Apr 1999), 8T494
Development of computer assisted systems for manufacturing dental prosthetic - 2nd Report: Development of crown design system (Japanese), J Japan Soc Precision Eng **65**(2) 255-259 (Feb 1999), 8A495
Development of statistical tolerancing for optical products - 2nd report: Realization of complex tolerance sensitivity analysis system (Japanese), J Japan Soc Precision Eng **65**(2) 279-284 (Feb 1999), 8A496
Exact tool allocation approach for CNC machines, Int J Comput Integrated Manuf **12**(2) 129-140 (Mar-Apr 1999), 8A497
Fuzzy recognition of the manufacturing processes based on control charts (Chinese), J Huazhong Univ Sci Tech **26**(12) 22-25 (Dec 1998), 8A498
High efficiency skill training of small-diameter deep-hole drilling by simulator (Japanese), J Japan Soc Precision Eng **65**(2) 250-254 (Feb 1999), 8A499
High-stiffness precision actuator for small displacements, Int J Machine Tools Manuf **39**(5) 823-837 (May 1999), 8A500
Integrated framework of IDEF modeling methods for structured design of shop floor control systems, Int J Comput Integrated Manuf **12**(2) 113-128 (Mar-Apr 1999), 8T501
Management system of tool magazine in machining centers (Chinese), J Huazhong Univ Sci Tech **26**(12) 16-18 (Dec 1998), 8A502
Multi-agent based architecture for shop floor control system (Chinese), J Huazhong Univ Sci Tech **26**(12) 4-7 (Dec 1998), 8A503
New coordinate measuring machine using parallel mechanism - 2nd report: Link layout design and error analysis (Japanese), J Japan Soc Precision Eng **65**(2) 288-292 (Feb 1999), 8A504
Optical telemetering of temperature information in rotating spindle - 3rd report: On-line estimation of thermal elongation and thermal displacement of rotating spindle (Japanese), J Japan Soc Precision Eng **65**(1) 150-154 (Jan 1999), 8A505
Optimization approaches in feature recognition, Int J Machine Tools Manuf **39**(5) 805-821 (May 1999), 8A506
Pressure profile trace control on fully electric injection molding machine - 1st report: Application of learning control for flow pressure control (Japanese), J Japan Soc Precision Eng **65**(2) 293-299 (Feb 1999), 8A507
Profile measurement with no standard: Measuring experiment of flatness along a circle using a Fizeau-interferometer (Japanese), J Japan Soc Precision Eng **65**(2) 300-304 (Feb 1999), 8A508
Simple estimating method of dynamic rigidity of machining center spindle (Japanese), J Japan Soc Precision Eng **65**(1) 136-140 (Jan 1999), 8A509
Small length measurement using regular crystalline lattice for reference - 3rd report: Suppression of thermal drift error and extension of measurement range to micrometers (Japanese), J Japan Soc Precision Eng **65**(1) 121-125 (Jan 1999), 8A510
Technical transitions of a ball screw: Having an eye on the high-speed, high-precision, high-rigidity and multifunction ball screws (Japanese), J Japan Soc Precision Eng **65**(1) 47-53 (Jan 1999), 8T511
Track of measurement and evaluation technology: Micro to nano, contact to non-contact (Japanese), J Japan Soc Precision Eng **65**(1) 54-59 (Jan 1999), 8T512
Ultra-precision measurement and control of rolling of stage (Japanese), J Japan Soc Precision Eng **65**(1) 100-105 (Jan 1999), 8A513
Multi-agent approach for distributed flexible manufacturing systems, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 76-80 (Dec 1998), 8A516

Applying object-oriented database technologies in concurrent design processes, Int J Comput Integrated Manuf **12**(3) 251-264 (May-Jun 1999), 9T534
Unified framework for the development of automated manufacturing systems supervisory software for the pharmaceutical industry, Int J Comput Integrated Manuf **12**(3) 193-210 (May-Jun 1999), 9A547
Automation of Kanban modeling through object-oriented visual-interactive simulation, Int J Comput Integrated Manuf **12**(3) 265-277 (May-Jun 1999), 9T549
Development of automatic surface inspection system of castings, Int J Japan Soc Precision Eng **32**(4) 278-283 (Dec 1998), 9A550
Estimation of surface profile from defocused fringe observation using phase shift interferometry, Int J Japan Soc Precision Eng **32**(4) 284-285 (Dec 1998), 9T551
Generalized modeling methodology for optimized real-time compensation of thermal deformation of machine tools and CMM structures, Int J Machine Tools Manuf **39**(6) 1001-1016 (Jun 1999), 9A552
Limiting form of optimal regulators and control of mechanical systems with a constrained condition, Int J Japan Soc Precision Eng **32**(4) 288-290 (Dec 1998), 9T553
Measurement methods for the position errors of a multi-axis machine - Part 1: Principles and sensitivity analysis, Int J Machine Tools Manuf **39**(6) 951-964 (Jun 1999), 9A554
Multiple fault detection and isolation using the Haar transform - Part 1: Theory, J Manuf Sci Eng **121**(2) 290-294 (May 1999), 9A555
Multiple fault detection and isolation using the Haar transform - Part 2: Application to the stamping process, J Manuf Sci Eng **121**(2) 295-299 (May 1999), 9A556
Parametric estimation approach for groove dimensioning using remote field eddy current inspection, Res Nondestructive Eval **11**(1) 39-57 (1999), 9A557
System modeling and real-time simulator for highly model-mixed assembly systems, J Manuf Sci Eng **121**(2) 282-289 (May 1999), 9A558
Thermal error analysis for a CNC lathe feed drive system, Int J Machine Tools Manuf **39**(7) 1087-1101 (Jul 1999), 9A559
Tolerance analysis of machining fixture locators, J Manuf Sci Eng **121**(2) 273-281 (May 1999), 9A560
Tolerance representation and analysis in industrial inspection, J Intelligent & Robotic Syst **24**(4) 387-401 (Apr 1999), 9A561
Geometric criteria for gouge-free three-axis milling of sculptured surfaces, J Mech Des **121**(2) 241-248 (Jun 1999), 9A776
Micro cutting in the micro lathe turning system, Int J Machine Tools Manuf **39**(7) 1171-1183 (Jul 1999), 9A793
Natural frequencies of composite plates with tailored thermal residual-stresses, Int J Solids Struct **36**(23) 3517-3539 (Aug 1999), 10A209
Milling cutter breakage detection by the discrete wavelet transform, Mechatronics **9**(3) 225-234 (Apr 1999), 10T467
Cyclic fine change sensing method by using synchronized image input (Japanese), J Japan Soc Precision Eng **65**(3) 469-473 (Mar 1999), 10A491
Development of an optical measurement method for surface roughness of 3D cast metals (Japanese), J Japan Soc Precision Eng **65**(3) 459-463 (Mar 1999), 10T492
Influence of the difference of characteristics between sensors to the roundness measurement based on 3-point method (Japanese), J Japan Soc Precision Eng **65**(3) 447-451 (Mar 1999), 10A493
Measuring method of thermal displacement for machine tools at high-speed spindle rotation (Japanese), J Japan Soc Precision Eng **65**(3) 396-400 (Mar 1999), 10T494
Multi-agent systems applications, Robotics Autonomous Syst **27**(1-2) 3-106 (Apr 1999), 10A495
Radial shearing interferometer for on-machine measurement (Japanese), J Japan Soc Precision Eng **65**(3) 443-446 (Mar 1999), 10A496
Relocation technique of surface asperity profiles for evaluating truncated surface - 2nd report: Based on statistical values of 2D profiles (Japanese), J Japan Soc Precision Eng **65**(3) 423-427 (Mar 1999), 10A497
Shape measurement of rough step like surface using a laser diode: The method with three-wavelength phase shifting (Japanese), J Japan Soc Precision Eng **65**(3) 418-422 (Mar 1999), 10A498
Study on precision cutting of axisymmetric aspherical surface: Effects of tool errors on workpiece form accuracies and its compensation methods (Japanese), J Japan Soc Precision Eng **65**(3) 401-410 (Mar 1999), 10T499
Uncertainty analysis and variation reduction of 3D coordinate metrology - Part 1: Geometric error decomposition, Int J Machine Tools Manuf **39**(8) 1199-1217 (Aug 1999), 10A500
Uncertainty analysis and variation reduction of 3D coordinate metrology - Part 2: Uncertainty analysis, Int J Machine Tools Manuf **39**(8) 1219-1238 (Aug 1999), 10A501
Uncertainty analysis and variation reduction of 3D coordinate metrology - Part 3: Variation reduction, Int J Machine Tools Manuf **39**(8) 1239-1261 (Aug 1999), 10A502
Optical inspection methods in Taiwan, Opt Lasers Eng **30**(6) 471-550 (Dec 1998), 10T955
Special issue International Journal of Vehicle Design, Int J Vehicle Des **21**(1) 1-121 (1999), 11A436
Construction a sensor feedback system in new NC controller (Japanese), J Japan Soc Precision Eng **65**(4) 559-564 (Apr 1999), 11A439
Estimation of the 2D measurement error introduced by in-plane and out-of-plane electronic speckle pattern interferometry instruments, Opt Lasers Eng **31**(1) 63-81 (Jan 1999), 11A440
Force control with servomechanism in fully electric injection molding machine (Japanese), J Japan Soc Precision Eng **65**(4) 542-548 (Apr 1999), 11A441
Measurement methods for the position errors of a multi-axis machine - Part 2: Applications and experimental results, Int J Machine Tools Manuf **39**(9) 1485-1505 (Sep 1999), 11A442
Mechanical processing of standard rulers with one-nanometer depth of muscovite mica using an atomic force microscope (Japanese), J Japan Soc Precision Eng **65**(4) 570-574 (Apr 1999), 11T443
Method of evaluating distribution systems (Japanese), J Japan Soc Precision Eng **65**(4) 532-536 (Apr 1999), 11A444
Minimum cost and weight design of fuselage frames - Part A: Design constraints and manufacturing process characteristics, Composites Part A Appl Sci and Manuf **30A**(7) 887-894 (1999), 11A445
New algorithm for determining a collision-free path for a CMM probe, Int J Machine Tools Manuf **39**(9) 1397-1408 (Sep 1999), 11A446
Optimal temperature variable selection by grouping approach for thermal error modeling and compensation, Int J Machine Tools Manuf **39**(9) 1383-1396 (Sep 1999), 11A447
Prediction of small drill bit breakage by wavelet transforms and linear discriminant functions, Int J Machine Tools Manuf **39**(9) 1471-1484 (Sep 1999), 11A448
Quality control of flax raw materials, Fibres Textiles in E Europe **6**(3) 27-29 (Jul-Aug 1998), 11T449
Robust inventory-production control problem with stochastic demand, Optimal Control Appl Methods **20**(1) 1-20 (Jan-Feb 1999), 11A450
Thermal error mode analysis and robust modeling for error compensation on a CNC turning center, Int J Machine Tools Manuf **39**(9) 1367-1381 (Sep 1999), 11A451
Novel interferometric method for contour mapping of optically rough surfaces, Opt Lasers Eng **31**(1) 41-50 (Jan 1999), 11A845
Modeling, optimization and classification of weld quality in tungsten inert gas welding, Int J Machine Tools Manuf **39**(9) 1427-1438 (Sep 1999), 11A1012
Approach to control input shaping with application to coordinate measuring machines, J Dyn Syst Meas Control **121**(2) 242-247 (Jun 1999), 12A426
New approach for selection of optimal process parameters in abrasive water jet cutting, Mat Manuf Processes **14**(4) 581-600 (1999), 12A434
Architecture of the remote work support system for maintenance and repair work, Int J Japan Soc Precision Eng **33**(1) 62-64 (Mar 1999), 12T545
Compact high brightness LCD data projector development, Int J Japan Soc Precision Eng **33**(1) 10-14 (Mar 1999), 12T546
Computer aided inspection of drill point geometry - Part II: A simple inspection method by using CCD camera (Japanese), J Japan Soc Precision Eng **65**(5) 736-740 (May 1999), 12A547
Development of adaptive production system to market uncertainty: Application to automotive starter assembly line, Int J Japan Soc Precision Eng **33**(1) 1-5 (Mar 1999), 12A548
Drill breakage detection and measurement of distance to the drilling surface on the micro drilling machine using voice coil motors, Int J Japan Soc Precision Eng **33**(1) 15-20 (Mar 1999), 12A549
Elastic deformation properties of blanket in offset printing due to rolling contact (Japanese), J Japan Soc Precision Eng **65**(5) 730-735 (May 1999), 12A550
Fast calibration of mean sensitivity of angle sensor (Japanese), J Japan Soc Precision Eng **65**(5) 725-729 (May 1999), 12A551
Frequency of vibration signals generated in metal lapping process: Model of generation of vibration signals (Japanese), J Japan Soc Precision Eng **65**(5) 684-688 (May 1999), 12A552
Grand piano manufacturing in Estonia: The problem of piano scaling, Proc Estonian Acad Sci Eng **5**(2) 155-167 (Jun 1999), 12A553
Graph-model of steel distribution on the ship's hull, Marine Tech Trans **9** 89-107 (1998), 12A554
Pressure profile trace control on fully electric injection molding machine - Part II: Application of learning control for pressure profile editing (Japanese), J Japan Soc Precision Eng **65**(5) 746-752 (May 1999), 12T555
Investigation of the pressure behavior in a pultrusion die for graphite-epoxy composites, Composites Part A Appl Sci and Manuf **30A**(9) 1123-1132 (1999), 12A718
Integration of an open architecture controller with a diamond turning machine, Mechatronics **9**(4) 349-361 (Jun 1999), 12A730
Micro-macro studies in mechanical behavior of manufacturing materials, J Mech Behavior Mat **10**(2) 61-134 (1999), 12T731
Multi-axis control using model matching method of feed drive systems for CNC machine tools (Japanese), J Japan Soc Precision Eng **65**(5) 704-708 (May 1999), 12A732
Increase of rigidity on vertical guideway of surface grinder by intermittent holding mechanism with PZT (Japanese), J Japan Soc Precision Eng **65**(5) 699-703 (May 1999), 12A736
Numerical and experimental determination of the feeding distance of aluminum alloys in gravity die casting using an optimized riser shape, Mat Manuf Processes **14**(4) 601-619 (1999), 12T740
Tow placement studies for liquid composite molding, Composites Part A Appl Sci and Manuf **30A**(9) 1105-1121 (1999), 12A750
Fringe analysis, Opt Lasers Eng **31**(2) 93-170 (Feb 1999), 12A866
Benefits of human intervention in a CIM environment, Int J Comput Integrated Manuf **12**(4) 291-382 (Jul-Aug 1999), 12A1655

208H. Management and economics

Engineering surfaces - A philosophy of manufacture: A proposal for good manufacturing practice, Proc Inst Mech Eng J Eng Manuf **212**(B3) 169-174 (1998), 1A482
Application of CIMS technology in enterprises (Chinese), J Shanghai Jiaotong Univ **32**(5) 115-118 (May 1998), 1A513
Comparison of rapid prototyping technologies, Int J Machine Tools Manuf **38**(10-11) 1257-1287 (Oct-Nov 1998), 1A514
Concurrent engineering diagnostic model integrating people, organization and technology, Int J Comput Integrated Manuf **11**(5) 461-474 (Sep-Oct 1998), 1T515
State-of-the-art in FMS scheduling (Chinese), J Shanghai Jiaotong Univ **32**(5) 124-127 (May 1998), 1A516
Outer approximations approach to reliability-based optimal design of structures, J Optim Theory Appl **98**(1) 1-16 (Jul 1998), 1T961
Solution techniques for periodic control problems: A case study in production planning, Optimal Control Appl Methods **19**(3) 185-203 (May-Jun 1998), 3T483
Filtered counting process and its applications to stochastic manufacturing systems, Stochastic Anal Appl **16**(1) 163-184 (1998), 3A485
Maximum principle for a stochastic optimal control problem and application to portfolio-consumption choice, J Optim Theory Appl **98**(3) 719-731 (Sep 1998), 3T486
Towards artificial decision making, Robotics Autonomous Syst **24**(3-4) 93-198 (Sep 1998), 4A422
Interaction-prediction approach to solving problems of hierarchical production planning in flexible automation workshops, Int J Comput Integrated Manuf **11**(6) 513-523 (Nov-Dec 1998), 4A493
Analysis of system quality by set-valued statistics, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 52-56 (Jun 1998), 4A508
Client-driven networked quality management model for next generation manufacturing system (Chinese), J Huazhong Univ Sci Tech **26**(7) 19-21 (Jul 1998), 4A509
Gray model of relations between cost and variety (Chinese), J Huazhong Univ Sci Tech **26**(7) 71-73 (Jul 1998), 4A510
Macroscopic management decision support applied to water resource problem (Chinese), J Xi'an Jiaotong Univ **32**(10) 101-104 (1998), 4A511
Management support systems for enterprises based on decision support entity (Chinese), J Huazhong Univ Sci Tech **26**(S1) 111-112 (May 1998), 4A512
Model of multistage inventory control in the network construction model of supply chains (Chinese), J Huazhong Univ Sci Tech **26**(7) 68-70 (Jul 1998), 4A513
Study on management and assurance information system of the next generation manufacturing systems (Chinese), J Huazhong Univ Sci Tech **26**(7) 22-23 (Jul 1998), 4A514
Two-level optimal model for manufacturing enterprises (Chinese), J Huazhong Univ Sci Tech **26**(S1) 107-109 (May 1998), 4A515
Variant approach to constructing and managing virtual manufacturing environments, Int J Comput Integrated Manuf **11**(6) 485-499 (Nov-Dec 1998), 4T516
Hierarchical strategies for reasoning and knowledge management in process planning (Chinese), J Huazhong Univ Sci Tech **26**(11) 66-68 (Nov 1998), 5A415
System of computer aided management and design of manufacture equipment (Chinese), J Beijing IT **18**(4) 444-448 (Aug 1998), 5A864
Computer-aided decision making for science and technology management (Chinese), J Xi'an Jiaotong Univ **32**(12) 48-50 (1998), 6A509
Consistency management among various models for production planning, Int J Japan Soc Precision Eng **32**(3) 219-220 (Sep 1998), 6T510
Data acquisition and management for fusion research: Garching, Germany: July 22-24 1997, Fusion Eng Des **43**(3-4) 239-456 (Jan 1999), 6T511
Implementing a model-based generic user interface for computer integrated manufacturing systems, Proc Inst Mech Eng J Eng Manuf **212**(B7) 501-516 (1998), 6A512
Improvement on productivity of machining centers: Effects of tool paths on productivity, Int J Japan Soc Precision Eng **32**(3) 171-177 (Sep 1998), 6A513
Contract administration technique for international construction projects based on quantitative analysis (Japanese), Proc JSCE **609**(VI41) 87-98 (Dec 1998), 7T446
Engineering cost functions in make-to-order production with applications, Acta Polytech Scand Mech Eng **0**(134) 9-139 (1998), 7A447
Predictable scheduling of a single machine subject to breakdowns, Int J Comput Integrated Manuf **12**(1) 15-38 (Jan-Feb 1999), 7T448
Visualized human-computer interactive approach to job shop scheduling, Int J Comput Integrated Manuf **12**(1) 75-83 (Jan-Feb 1999), 7T449
Optimal maintenance for RC decks of bridge network based upon life cycle cost (Japanese), J Soc Mat Sci Japan **47**(12) 1245-1250 (Dec 1998), 7A848
Construction management system of super workable concrete at Kobe Minatojima tunnel (Japanese), Proc JSCE **609**(VI41) 15-27 (Dec 1998), 7A858
Exact tool allocation approach for CNC machines, Int J Comput Integrated Manuf **12**(2) 129-140 (Mar-Apr 1999), 8A497
Development of a human-computer interactive scheduling system, Int J Comput Integrated Manuf **12**(2) 156-167 (Mar-Apr 1999), 8T514
Manufacturing cost deployment (Japanese), J Japan Soc Precision Eng **65**(2) 260-266 (Feb 1999), 8A515
Multi-agent approach for distributed flexible manufacturing systems, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 76-80 (Dec 1998), 8A516
Synthesis of Kanban control policies for multi-stage just-in-time assembly systems, Eng Optim **31**(2) 191-224 (Dec 1998), 8A517
Performance implications of older workers in technological manufacturing environments: A task-analysis and human reliability perspective, Int J Comput Integrated Manuf **12**(2) 104-112 (Mar-Apr 1999), 8T1605
Comparative study of fuzzy linear model and the DEA in evaluation of efficiency of the DMUs, Control and Cybernetics **27**(3) 471-477 (1998), 9T562
Constructing improvement plan for inputs through dialogue with DM about DEA-efficiency for DMUs, Control and Cybernetics **28**(1) 133-139 (1999), 9T563
Construction of a k-immunization strategy with the highest convexity, Control and Cybernetics **27**(1) 135-144 (1998), 9T564
Evaluation of compatibility with gradual rules in information systems: A topological approach, Control and Cybernetics **28**(1) 121-131 (1999), 9T565
Portfolio optimization: Two rules approach, Control and Cybernetics **27**(3) 429-446 (1998), 9T566
Portfolio selection model with information cost, Control and Cybernetics **28**(1) 88-99 (1999), 9T567
Properties of solutions for 2D choice problems reconsidered, Control and Cybernetics **28**(1) 75-87 (1999), 9T568
Satisfying method of introducing the concepts of fuzzy goal and fuzzy constraints into the DEA, Control and Cybernetics **27**(3) 465-469 (1998), 9T569
Two factors utility approach, Control and Cybernetics **27**(3) 417-428 (1998), 9T570
Knowledge systems management (Chinese), J Dalian Univ Tech **39**(2) 336-342 (Mar 1999), 10A503
Macroeconomy as a network of money-flow transfer functions, Model Ident Control **19**(4) 207-223 (Oct 1998), 11A452
Minimum cost and weight design of fuselage frames - Part B: Cost considerations, optimization, and results, Composites Part A Appl Sci and Manuf **30A**(7) 895-904 (1999), 11A453
Production principles of the rolling bearing industry in Japan after World War II, Int J Japan Soc Precision Eng **33**(1) 43-48 (Mar 1999), 12T556
Research on cellular machines - Part I: Development of a cellular automatic warehouse (Japanese), J Japan Soc Precision Eng **65**(5) 673-677 (May 1999), 12A557
Thermoeconomic analysis of absorption refrigeration system using waste heat (Chinese), J Dalian Univ Tech **39**(3) 434-439 (May 1999), 12A558

IV. MECHANICS OF SOLIDS

250. ELASTICITY

Exact solutions for the mixed plane problems of linearized mechanics of deformed bodies: Survey, Prikl Mekh (Appl Mech) **34**(3) 3-35 (1998), 1A517

250A. General theory

Analysis of stress near the point of intersection of slip-lines, Prikl Mekh (Appl Mech) **34**(2) 74-77 (1998), 1A518

Asymptotic description of the logarithmic singular stress field and its application, Int J Solids Struct **35**(30) 3917-3933 (Oct 1998), 1A519

Cavity of the optimal shape under the shear stresses, Int J Solids Struct **35**(33) 4391-4410 (Nov 1998), 1A520

Observations on the potential functions for transverse isotropy in the presence of body forces, Int J Solids Struct **35**(28-29) 3793-3813 (Oct 1998), 1A521

One presentation of Beltrami simultaneity condition, Prikl Mekh (Appl Mech) **34**(2) 86-91 (1998), 1A522

Existence and uniqueness of solutions of the equilibrium equations for a class of nonlinearly elastic materials, Z Angew Math Mech **78**(7) 467-481 (1998), 1A525

Special topics in structural mechanics and materials: A volume in honor of Professor Zdenek P Bazant, Int J Solids Struct **35**(31-32) 4025-4350 (Nov 1998), 1T872

Analyse des Structures et Milieux Continus, Volume 3: Mecanique des Solides (French) (Presses Polytech et Univ Romandes, Lausanne, 1998) 2R1

Symmetric representation of stress and strain in the Stroh formalism and physical meaning of the tensors L, S, L (θ) and S (θ), J Elast **50**(1) 91-96 (1998), 2A2

Poisson's ratio for orthorhombic materials, J Elast **50**(1) 87-89 (1998), 2A16

Two theoretical elasticity micromechanics models, J Elast **50**(1) 15-25 (1998), 2A21

Extreme values of Young's modulus, the shear modulus, and Poisson's ratio for cubic materials, J Appl Mech **65**(3) 786-787 (Sep 1998), 2A592

Results in the dynamical theory of porous elastic bodies, J Elast **50**(1) 3-14 (1998), 2A593

Energy of a growing elastic surface, Int J Solids Struct **35**(36) 5237-5252 (Dec 1998), 3A487

Singular integral equations and fundamental solutions of poroelasticity, Int J Solids Struct **35**(34-35) 4521-4555 (Dec 1998), 3A488

Generalized Poynting effects in predeformed prismatic bars, J Elast **50**(2) 181-196 (1998), 3A589

Eigenstrains and the elastic field of an adatom, J Mech Phys Solids **46**(9) 1557-1579 (Sep 1998), 4A7

Non-symmetric deformations of neo-Hookean solids, J Elast **50**(3) 209-225 (1998), 4A9

Elastoplastic equilibrium of a plane with a circular hole under effect of compressing forces (Russian), Prikl Mekh (Appl Mech) **34**(6) 99-103 (1998), 4A517

Size effects in materials due to microstructural and dimensional constraints: A comparative review, Acta Mat **46**(16) 5611-5626 (Oct 1998), 4A518

Representation theorems for hemitropic and transversely isotropic tensor functions, J Elast **51**(1) 43-71 (1998), 5A2

Conservation laws and conjugate solutions in the elasticity of simple materials and materials with couple stress, J Elast **51**(1) 1-22 (1998), 5A421

Functional bases for transversely isotropic and transversely hemitropic invariants of elasticity tensor, Quart J Mech Appl Math **51**(4) 543-552 (Nov 1998), 5A422

Pure shears in the mechanics of materials, Math Mech Solids **3**(4) 471-503 (Dec 1998), 5A423

Quasiconvexity at the boundary and a simple variational formulation of Agmon's condition, J Elast **51**(1) 23-41 (1998), 5A424

Universal motions for constrained simple materials, Int J Non-Linear Mech **34**(3) 469-484 (May 1999), 5A425

Second order constitutive theory for hyperelastic materials, Int J Solids Struct **36**(6) 847-868 (Feb 1999), 6A5

Elastic modules of tungsten monocarbide crystals (Russian), Prikl Mekh (Appl Mech) **34**(8) 58-61 (1998), 6T514

Representation of the stored energy for elastic materials with full transverse response-symmetry, J Elast **51**(2) 167-176 (1998), 6A515

Solution of stationary problems of the theory of elasticity at high-gradient loads and localized mass and rigidity inhomogeneities (Russian), Prikl Mekh (Appl Mech) **34**(9) 39-45 (1998), 6A516

Fundamental theory of curved structures from a non-tensorial point of view, Struct Eng and Mech **7**(2) 159-180 (Feb 1999), 6A645

Effective elastic behavior of some models for "perfect" cellular solids, Int J Solids Struct **36**(10) 1471-1501 (Apr 1999), 7A450

Ellipticity loss in isotropic elasticity, J Elast **51**(3) 203-211 (1998), 7A451

Korn's constant for a parallelepiped with a free face or pair of faces, Math Mech Solids **4**(1) 35-55 (Mar 1999), 7A452

Linear constitutive relations in isotropic finite elasticity, J Elast **51**(3) 243-245 (1998), 7A453

Asymmetric theory of nonlocal elasticity - Part 1: Quasicontinuum theory, Int J Solids Struct **36**(20) 2947-2958 (Jul 1999), 8A1

Asymmetric theory of nonlocal elasticity - Part 2: Continuum field, Int J Solids Struct **36**(20) 2959-2971 (Jul 1999), 8A2

State of pure shear, J Elast **52**(1) 91-98 (1998), 8A7

Invariant tensor-to-matrix mappings for evaluation of tensorial expressions, J Elast **52**(1) 43-61 (1998), 8A13

Strain rates and material spins, J Elast **52**(1) 1-41 (1998), 8A15

Survey of structural tangent stiffness in fully nonlinear and nonconvex cases including material softening, Mech Struct Machines **27**(1) 37-62 (1999), 8T826

Nonexistence of some special eigenfunctions for the Dirichlet Laplacian and the Lame system, J Elast **52**(2) 111-120 (1998), 10A2

New elastic behavior arising from the unusual constitutive relation of nematic solids, J Mech Phys Solids **47**(6) 1355-1377 (Jun 1999), 10A30

Determination of axisymmetrical stressed state of a compound body under the disjoining pressure (Russian), Prikl Mekh (Appl Mech) **35**(1) 50-57 (1999), 10T504

Uniformity of stresses within a three-phase elliptic inclusion in anti-plane shear, J Elast **52**(2) 121-128 (1998), 10A505

Universal deformations for a class of compressible isotropic hyperelastic materials, J Elast **52**(2) 159-166 (1998), 10A506

Conditions at an interface between two materials in 3D space, Math Mech Solids **4**(2) 183-200 (Jun 1999), 11A454

Bending of microstretch elastic plates, Int J Eng Sci **37**(10) 1309-1318 (Aug 1999), 11A574

Thermal stresses in heterogeneous elastic cylinders with microstructure, J Thermal Stresses **22**(4-5) 371-385 (May-Jul 1999), 11A1445

Material formulation of finite-strain thermoelasticity and applications, J Thermal Stresses **22**(4-5) 421-449 (May-Jul 1999), 11A1446

Elasticity (Dover, Mineola NY, 1999) 12N16

New representation theorem for elastic constitutive equations of cubic crystals, J Elast **53**(1) 37-45 (1998), 12A1

Derivation of the general form of elasticity tensor of the transverse isotropic material by tensor derivate, Appl Math Mech **20**(3) 309-314 (Mar 1999), 12A559

Discrete Cosserat eigenfunctions for a spherical shell, J Elast **52**(3) 239-255 (1998), 12A560

Non-uniqueness of solution for screw dislocations in multiply connected regions, J Elast **52**(3) 289-292 (1998), 12A561

Well-posedness of mixed formulations in elasticity, Z Angew Math Mech **79**(7) 435-454 (1999), 12A562

Exact controllability of a Koiter shell by a boundary action, J Elast **52**(3) 267-287 (1998), 12A657

250B. Linear theory

Axisymmetrical mixed problem of stationary dynamical theory of elasticity for a layer with a circular hole, Prikl Mekh (Appl Mech) **34**(1) 39-46 (1998), 1A523

Excitation of the edge mode in semi-infinite elastic strip, Prikl Mekh (Appl Mech) **34**(2) 17-25 (1998), 1A524

Effective elastic constants of particulate composites with inhomogeneous interphases, J Composite Mat **32**(15) 1391-1424 (1998), 1A605

Boussinesq problem for soils with bounded nonhomogeneity, Int J Numer Anal Methods Geomech **22**(8) 655-669 (Aug 1998), 2A594

Circular arc rigid line problem with loading on-line, J Appl Mech **65**(3) 776-778 (Sep 1998), 2T595

Integral solution of the antiplane shear problem, Math Mech Solids **3**(3) 319-330 (Sep 1998), 2A596

Hypersingular boundary contour method for 2D linear elasticity, Acta Mech **130**(3-4) 209-225 (1998), 3A489

Least-squares mixed FEs for linear elasticity problems with nonhomogeneous boundary conditions, Z Angew Math Mech **78**(9) 641-645 (1998), 3A505

Effects of strain state on the kinetics of strain-induced martensite in steels, J Mech Phys Solids **46**(9) 1613-1635 (Sep 1998), 4A1404

St Venant's principle and the plane elastic wedge, Int J Solids Struct **36**(3) 345-361 (Jan 1999), 6A517

Distribution of hoop stresses around circular disks, Mech Res Commun **26**(1) 75-82 (Jan-Feb 1999), 7T454

End effects in anti-plane shear for an inhomogeneous isotropic linearly elastic semi-infinite strip, J Elast **51**(3) 227-242 (1998), 7A455

Exact solution of the plane elasticity problems for the S-cut with cusps, Mech Res Commun **26**(1) 65-68 (Jan-Feb 1999), 7T456

Solution of the plane elasticity basic problems for the unbounded domains with boundary cusps, Mech Res Commun **26**(1) 61-64 (Jan-Feb 1999), 7T457

Two-dimensional linear elasticity by the boundary node method, Int J Solids Struct **36**(8) 1129-1147 (Mar 1999), 7A458

Solutions for transversely isotropic piezoelectric infinite body, semi-infinite body and bimaterial infinite body subjected to uniform ring loading and charge, Int J Solids Struct **36**(17) 2613-2631 (Jun 1999), 8A676

Canonical forms and conservation laws in linear elastostatics, Arch Mech **50**(3) 389-404 (1998), 10A507

Flexure of a Saint Venant cylinder, J Elast **52**(2) 99-110 (1998), 10A666

Savin-Rvachev observation on violation of factual compatibility in linear elastostatics and some of its implications, Int J Eng Sci **37**(10) 1277-1288 (Aug 1999), 11A455

Spherically isotropic, elastic spheres subject to diametral point load strength test, Int J Solids Struct **36**(29) 4473-4496 (Oct 1999), 11A456

Boundary integral equations for thin asymmetric anisotropic laminates with corner points and corner forces (French), Comptes Rendus L'Acad Sci Serie II **327**(6) 567-572 (Jun 1999), 11A471

Stresses in a confocal elliptic ring subject to uniform pressure, J Strain Anal Eng Des **34**(3) 217-221 (May 1999), 11A569

Asymptotic splitting in the three-dimensional problem of linear elasticity for elongated bodies with a structure, J Appl Math Mech **63**(1) 85-92 (1999), 12A563

Criterion of optimization of a modified Green's function in linear elasticity, Int J Eng Sci **37**(11) 1441-1460 (Sep 1999), 12A564

Nonlocal solution of the elastic half plane loaded by a couple, Int J Eng Sci **37**(11) 1389-1405 (Sep 1999), 12A565

Thick hollow sphere compressed by equal and opposite concentrated axial loads: An asymptotic solution, SIAM J Appl Math **59**(3) 1080-1097 (Dec 1998), 12A566

Recovery of stresses in a beam from those in a cone, J Elast **53**(1) 65-75 (1998), 12A654

250C. Nonlinear and finite deformation problems

Existence and uniqueness of solutions of the equilibrium equations for a class of nonlinearly elastic materials, Z Angew Math Mech **78**(7) 467-481 (1998), 1A525

Study of the nonlinear material behavior of fiberdux 920-C-TS-5-42, J Mech Behavior Mat **9**(1) 91-96 (1998), 1A526

Nonlinear elastic equilibrium of a cylinder with reinforced spherical cavity under torsion (Russian), Prikl Mekh (Appl Mech) **33**(5) 30-40 (1998), 2A597

Simple tension problem at large volumetric strains computed from finite hyperelastic material laws, Acta Mech **130**(1-2) 17-27 (1998), 2A598

Solution of physically nonlinear problems for piecewise homogeneous bodies with nonorthogonal interfaces close to spherical ones (Russian), Prikl Mekh (Appl Mech) **34**(5) 32-41 (1998), 2A599

Paradoxical bending behavior of shearable nonlinearly elastic rods, J Elast **50**(1) 27-48 (1998), 2A685

Numerical study of large deformations of low-density elastomeric open-cell foams, Mech Mat **30**(2) 125-140 (Oct 1998), 3A28

Asymptotic analysis of the eversion of nonlinearly elastic shells, J Elast **50**(2) 129-179 (1998), 3A490

Global continuation in nonlinear elasticity, Arch Rational Mech Anal **143**(1) 1-28 (1998), 3A491

Simple orthotropic, transversely isotropic hyperelastic constitutive equation for large strain computations, Comput Methods Appl Mech Eng **162**(1-4) 151-164 (Aug 1998), 3A492

Contact problems in terms of large deformations, Z Angew Math Mech **78**(8) 523-533 (1998), 3A496

Symmetrizing nonlinear elastodynamic system, J Elast **50**(3) 245-252 (1998), 4A519

Experimental and theoretical observations of elastic instabilities in eccentric cylinder flows: Local versus global instability, J Non-Newtonian Fluid Mech **80**(1) 1-58 (Dec 1998), 4A1193

Finite inhomogeneous shearing deformations of a transversely isotropic incompressible material, J Elast **51**(1) 81-87 (1998), 5A426

Nonlinear diffusion-induced stresses in a long bar of square cross section, Int J Solids Struct **36**(2) 269-284 (Jan 1999), 5A427

Stiff elastic tape wrapped onto a drum, J Appl Mech **65**(4) 870-874 (Dec 1998), 5A428

Forms of the relation between the stress and strain tensors in a nonlinearly elastic material, J Appl Math Mech **62**(4) 599-604 (1998), 6A4

Approach to solution of spatial physically nonlinear problems of statics of noncircular elastic cylinders (Russian), Prikl Mekh (Appl Mech) **34**(9) 9-18 (1998), 6A518

Computational method on process optimal control for finite deformation problems, Acta Mech Solida Sinica **11**(4) 307-317 (1998), 6A559

Foundations of the Nonlinear Theory of Elasticity (Dover, Mineola NY, 1999) 7N18

Analysis of the linearized equations for axisymmetric deformations of hyperelastic cylinders, Math Mech Solids **4**(1) 109-133 (Mar 1999), 7A459

Plane deformation and stability of an elastic layer with intrinsic boundary elasticity, Int J Eng Sci **37**(2) 213-234 (Jan 1999), 7A460

Pure complementary energy principle and triality theory in finite elasticity, Mech Res Commun **26**(1) 31-37 (Jan-Feb 1999), 7T461

Pure volumetric compaction of a prestressed nonlinear hyperelastic solid with reference to poroelastic materials, Mech Mat **31**(2) 141-147 (Feb 1999), 7A462

Stress-induced phase transitions in elastic solids, Comput Mech **22**(6) 429-436 (Jan 1999), 7A463

Study of variational law of lateral contraction ratio for condition of large deformation constant volume (Chinese), J Dalian Univ Tech **39**(1) 26-30 (Jan 1999), 7A464

Transformations and equation reductions in finite elasticity - III: A general integral for plane strain deformations, Math Mech Solids **4**(1) 3-15 (Mar 1999), 7A465

Nonlinear Theory of Dislocations and Disclinations in Elastic Bodies (Springer-Verlag, Berlin, 1997) 8R15

Non-classical solutions for the eversion of incompressible elastic cylinders in finite elasticity with non-smooth internal strains, Z Angew Math Mech **79**(1) 37-41 (1999), 8A518

Proceedings of the 3rd International Conference on Nonlinear Mechanics (Shanghai Univ Press, PRC, 1998) 9N14

Mixed and selective reduced integration procedures in large strain hyperelastic analysis of nearly incompressible solids, Comput Mech **23**(1) 63-74 (Feb 1999), 9A571

Virtual crack extension in geometries under large displacements-rotations, Int J Fracture **89**(4) 309-331 (1998), 9A849

Isotropy postulate for finite deformations (Russian), Prikl Mekh (Appl Mech) **35**(1) 17-27 (1999), 10A1

Determining material true stress-strain curve from tensile specimens with rectangular cross-section, Int J Solids Struct **36**(23) 3497-3516 (Aug 1999), 10A23

Universal deformations for a class of compressible isotropic hyperelastic materials, J Elast **52**(2) 159-166 (1998), 10A506

Effect of physical nonlinearity of material on the stressed state of the medium with elastic spherical inclusion under uniform loading (Russian), Prikl Mekh (Appl Mech) **34**(11) 46-51 (1998), 10A508

Plane deformations in incompressible nonlinear elasticity, J Elast **52**(2) 129-158 (1998), 10A509

Torsion and telescopic shearing of a compressible hyperelastic tube, Mech Res Commun **26**(2) 245-252 (Mar-Apr 1999), 11T457

Incoherence at heterogeneous interfaces, J Mech Phys Solids **47**(8) 1609-1632 (Aug 1999), 11A464

Dynamic motion of two elastic half-spaces in relative sliding without slipping, J Trib **121**(3) 455-461 (Jul 1999), 12A567

Ubiquity of fracture in nonlinear elasticity, J Elast **52**(3) 257-266 (1998), 12A812

Techniques for the analysis of nonlinear systems with applications to solid and structural mechanics, Acta Polytech Scand Civil Eng Build **0**(116) 8-74 (1999), 12A920

250D. Three-dimensional problems

Three-dimensional displacement discontinuity solutions for fluid-saturated porous media, Int J Solids Struct **35**(34-35) 4887-4893 (Dec 1998), 3A1431

Indentation of an incompressible elastic film, Mech Mat **30**(4) 275-286 (Dec 1998), 5A59

Nonlinear elastic equilibrium of 3D deformed bodies with nonorthogonal surfaces close to cylindrical ones (Russian), Prikl Mekh (Appl Mech) **34**(10) 100-108 (1998), 6A519

Study of asymmetrical stress-strained state of transversal-isotropic cylinders under different boundary conditions at the butt-ends (Russian), Prikl Mekh (Appl Mech) **34**(7) 3-10 (1998), 6A520

Transverse decay of solutions in an elastic cylinder, Meccanica **33**(6) 577-585 (Dec 1998), 6A521

Three dimensional stress singularity at polyhedral corner points, Int J Solids Struct **36**(8) 1105-1128 (Mar 1999), 7A466

Elasticity solutions for a piezoelectric cone under concentrated loads at its apex, Appl Math Mech **20**(1) 12-17 (Jan 1999), 9A738

Torsion of compound hollow cylinder with an external annular crack, JSME Int J Ser A **41**(4) 510-516 (Oct 1998), 10A510

Order of singularity and singular stress field about an axisymmetric interface corner in 3D isotropic elasticity, Int J Solids Struct **36**(29) 4425-4445 (Oct 1999), 11A458

Elasticity (Dover, Mineola NY, 1999) 12N16

250E. Stress concentrations and singularities

Applications of digital speckle correlation to microscopic strain measurement and materials' property characterization, J Electron Packaging **120**(3) 275-279 (Sep 1998), 1A527

Stress concentration in thick cylindrical shells with an arbitrary cutout, Appl Math Mech **19**(5) 399-410 (May 1998), 1A528

Well-posedness for a nonlinear shallow spherical shell, Nonlinear Anal **34**(3) 405-425 (Nov 1998), 1T529

Stress concentration in the composite piezoceramic plate with a hole, Prikl Mekh (Appl Mech) **34**(1) 98-102 (1998), 1A650

Stress intensity factors in human bones by optical methods, J Mech Behavior Mat **9**(1) 17-22 (1998), 1A929

Equivalence for two interacting parallel cracks, J Pressure Vessel Tech **120**(4) 424-430 (Nov 1998), 2A889

Stress concentration and fatigue of profiled reinforcing steels, Int J Fatigue **20**(10) 767-773 (Nov 1998), 3A493

Periodic array of cracks in a functionally graded nonhomogeneous medium loaded under in-plane normal and shear, Int J Fracture **88**(2) 107-128 (1997), 3A790

Analysis of bimaterial wedges using a new singular FE, Int J Fracture **88**(4) 373-391 (1998), 4A20

Static and dynamic stress intensity factors computations by the hypersingular element method (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 339-363 (1998), 4A54

Stress distributions around holes in composite laminates subjected to biaxial loading, Appl Composite Mat **5**(6) 365-378 (Nov 1998), 4A620

Stress concentration near two holes in a cylindrical shell of composite material (Russian), Prikl Mekh (Appl Mech) **34**(6) 68-72 (1998), 4A657

Mixed mode fracture of cracks and wedge shaped notches in expanded PVC foam, J Composite Mat **32**(21) 343-358 (1998), 4A812

Curvature effect on stress concentrations around circular hole in opened shallow cylindrical shell under external pressure, Int J Pressure Vessels Piping **75**(10) 749-763 (Aug 1998), 5A429

Stress concentration factors of edge-notched orthotropic plates, J Strain Anal Eng Des **33**(5) 395-398 (Sep 1998), 5A430

Substrate stress concentrations in bonded lap joints, J Strain Anal Eng Des **33**(5) 331-346 (Sep 1998), 5A885

Applied alternating method to analyze the stress concentration around interacting multiple circular holes in an infinite domain, Int J Solids Struct **36**(4) 533-556 (Feb 1999), 6A522

Closed form solution about stress intensity factors of shear modes for 3D finite bodies with eccentric cracks by the energy release rate method, Int J Solids Struct **36**(7) 971-998 (Mar 1999), 6A523

Stresses around pin-loaded hole in composite laminates using direct BEM, Int J Solids Struct **36**(5) 763-783 (Feb 1999), 6A524

Analysis of stress concentrations in unidirectional composites taking into account the tensile load in the matrix, Acta Mech Solida Sinica **11**(4) 318-328 (1998), 6A594

Radial cracks in a sheet weakened by a pressurized circular hole, Meccanica **33**(6) 533-540 (Dec 1998), 6A947

Stochastic model of rough surfaces for FE contact analysis, Comput Methods Appl Mech Eng **169**(1-2) 43-59 (Jan 1999), 7A24

Three dimensional stress singularity at polyhedral corner points, Int J Solids Struct **36**(8) 1105-1128 (Mar 1999), 7A466

Green's function for general cracked ring problems, Int J Pressure Vessels Piping **76**(2) 117-126 (Feb 1999), 8A519

Influence of hydrostatic stress on failure of axisymmetric notched specimens, J Mech Phys Solids **47**(3) 643-667 (Mar 1999), 8A520

Study of stress concentrations in woven composites, J Reinforced Plastics Composites **18**(3) 198-214 (1999), 8A602

Boundary element alternating method applied to analyze the stress concentration problems of multiple elliptical holes in an infinite domain, Nucl Eng Des **187**(3) 303-313 (Mar 1999), 9A54

Elastic stress distributions in finite size plates with edge notches, Int J Fracture **91**(3) 269-282 (1998), 9A572

Uniqueness of solution of field point of singular source outside-region-distribution method, Appl Math Mech **20**(1) 36-42 (Jan 1999), 9A573

Singularity analysis and boundary integral equation method for frictional crack problems in 2D elasticity, Int J Fracture **90**(3) 251-274 (1998), 9A932

Effective stress factor correlation equations for piping branch junctions under internal pressure loading, J Pressure Vessel Tech **121**(2) 121-126 (May 1999), 9A1018

Analysis for stress singularity field at a vertex in 3D bonded structures, JSME Int J Ser A **42**(1) 80-89 (Jan 1999), 10A511

Logarithmic stress singularities resulting from various boundary conditions in angular corners of plates in extension, J Appl Mech **66**(2) 556-560 (Jun 1999), 10A512

Prediction of stress distributions along the intersection of tubular Y and T-joints, Int J Fatigue **21**(4) 361-381 (Apr 1999), 10A513

Stress measurement using the caustics method under distributed load conditions, JSME Int J Ser A **40**(4) 407-413 (Oct 1997), 10A514

Distributed dislocation method applied to the analysis of elastoplastic strain concentrations, J Mech Phys Solids **47**(5) 1007-1026 (May 1999), 10A550

Stress concentration induced by an elastic spheroidal particle in a plastically deforming solid, J Mech Phys Solids **47**(6) 1301-1336 (Jun 1999), 10A566

Solution of dynamic problems on concentration of elastic stresses in the vicinity of defects on cylindrical surfaces (Russian), Prikl Mekh (Appl Mech) **35**(1) 28-36 (1999), 10T824

Critical radius for interface separation of a compressively stressed film from a rough surface, Acta Mat **47**(6) 1749-1756 (Apr 1999), 10A918

Experimental verification of relaxation of stress concentrations in an adaptive plate with a circular hole using piezoelectric actuators, JSME Int J Ser A **41**(1) 142-148 (Jan 1998), 10A982

Effect of a large hole on the stress concentration factor of a satellite hole in a tension field, J Pressure Vessel Tech **121**(3) 252-256 (Aug 1999), 11A459

Mechanical behavior of a μm-sized single crystal silicon structure with sharp notches, J Mech Phys Solids **47**(8) 1795-1821 (Aug 1999), 11A460

Parametric equations to predict stress distributions along the intersection of tubular X and DT-joints, Int J Fatigue **21**(6) 619-635 (Jul 1999), 11A461

Stress analysis of notched anisotropic finite plates under mechanical and hygrothermal loads, Arch Appl Mech **69**(3) 145-159 (Apr 1999), 11A462

Stress concentrations caused by fiber failure in 2D composites, Composites Sci Tech **59**(7) 1063-1071 (May-Jun 1999), 11A463

Experimental determination of stress concentrations in orthotropic composites, J Strain Anal Eng Des **34**(2) 69-81 (Mar 1999), 11A552

Estimation with a few strain gages of stress fields near a notch root of actual structures under in-plane loading, J Test Eval **27**(2) 122-130 (Mar 1999), 12A568

Neural network method to determine maximum stress value of stress concentration point (Chinese), J Dalian Univ Tech **39**(3) 367-371 (May 1999), 12A569

Numerical solution of singular integral equations in stress concentration problems under longitudinal shear loading, Arch Appl Mech **69**(4) 257-264 (May 1999), 12A570

250F. Elastic imperfections (dislocations, etc)

Dislocation substructure induced by high strain rate deformation in FCC poly and single crystals, J Mech Behavior Mat **9**(1) 83-89 (1998), 1A530

Dislocations near a sliding interface, Int J Eng Sci **36**(9) 1011-1034 (Jul 1998), 1A531

Interaction of very small voids with larger voids, Int J Solids Struct **35**(30) 3989-4000 (Oct 1998), 1A532

Affect of interfacial shear on cavity formation at an elastic inhomogeneity, J Elast **50**(1) 49-85 (1998), 2A600

Stress-deformed state of spherical layer with circular dislocational loop (Russian), Prikl Mekh (Appl Mech) **33**(7) 16-24 (1997), 2A601

Generalized self-consistent Mori-Tanaka model for predicting the effective moduli of the coated inclusion based composite materials, Acta Mech Solida Sinica **11**(3) 199-208 (1998), 3A494

Excitation of normal modes of a thin elastic plate by moving dislocations, Wave Motion **29**(1) 35-46 (Jan 1998), 5A431

Dislocations within elliptical holes, Acta Mat **47**(1) 1-4 (Dec 1998), 6A525

Matching the inner and outer solutions in the continuum theory of dislocations, Int J Eng Sci **37**(1) 59-73 (Jan 1999), 6A526

Screw dislocation near a slant edge crack, Mech Mat **31**(1) 63-70 (Jan 1999), 6A527

Three-dimensional FE analysis of the evolution of voids and thin films by strain and electromigration induced surface diffusion, J Mech Phys Solids **47**(1) 173-199 (Jan 1999), 6A528

Interaction of an edge dislocation with an elliptical hole in a rectilinearly anisotropic body, Mech Mat **31**(1) 71-93 (Jan 1999), 6A533

Nonconvex energy minimization and dislocation structures in ductile single crystals, J Mech Phys Solids **47**(2) 397-462 (Feb 1999), 7A4

Interface dislocations between dissimilar materials with nonlinear stress-strain laws: Mode 3 analysis, J Mech Phys Solids **47**(2) 351-369 (Feb 1999), 7A467

Analysis of a screw dislocation inside an elliptical inhomogeneity in piezoelectric solids, Int J Solids Struct **36**(10) 1449-1469 (Apr 1999), 7A613

Nonlinear Theory of Dislocations and Disclinations in Elastic Bodies (Springer-Verlag, Berlin, 1997) 8R15

Elastic fields of stationary and moving dislocations in 3D finite samples, J Mech Phys Solids **47**(4) 817-841 (Apr 1999), 8A521

Elastic interaction of defects on crystal surfaces, J Eng Mat Tech **121**(2) 129-135 (Apr 1999), 8A522

Interaction between point defects and edge dislocation in BCC iron, J Eng Mat Tech **121**(2) 126-128 (Apr 1999), 8A523

Stability of dislocation short-range reactions in BCC crystals, J Eng Mat Tech **121**(2) 143-150 (Apr 1999), 8A540

Curved parametric segments for the stress field of 3D dislocation loops, J Eng Mat Tech **121**(2) 136-142 (Apr 1999), 8A562

Dislocation propagation in an ultrasonic field, Russian Ultrasonics **28**(5) 227-236 (1998), 9A221

Interface dislocations between dissimilar materials with nonlinear stress-strain laws: Plane strain, Int J Eng Sci **37**(5) 553-573 (Apr 1999), 9A574

Modeling of elastic constants of plasma spray deposits with ellipsoid-shaped voids, Acta Mat **47**(5) 1575-1586 (Mar 1999), 9A575

Thermoelastic interaction between a hole and an elastic circular inclusion, AIAA J **37**(4) 475-481 (Apr 1999), 9A576

Remarks on the variational description of microcracked bodies, Int J Non-Linear Mech **34**(4) 633-642 (Jul 1999), 9A578

Force on a dislocation near a weakly bonded interface, J Elast **52**(2) 167-180 (1998), 10A515

Micromechanics of imperfect interfaces in heterogeneous bodies smaller than the representative volume, Int J Eng Sci **37**(7) 847-861 (May 1999), 10A516

Distributed dislocation method applied to the analysis of elastoplastic strain concentrations, J Mech Phys Solids **47**(5) 1007-1026 (May 1999), 10A550

Incoherence at heterogeneous interfaces, J Mech Phys Solids **47**(8) 1609-1632 (Aug 1999), 11A464

Mobility of non-planar screw dislocations ahead of a mode III crack tip, Mech Mat **31**(6) 367-379 (Jun 1999), 11A772

Motion of a screw dislocation in a wedge-shaped region, J Appl Math Mech **63**(1) 137-140 (1999), 12A571

250G. Variational and energy methods

Variational methods for the homogenization of periodic heterogeneous media, Eur J Mech A **17**(4) 599-617 (1998), 1A533

Simple tension problem at large volumetric strains computed from finite hyperelastic material laws, Acta Mech **130**(1-2) 17-27 (1998), 2A598

Tangent modulus tensor in hyperelasticity, Acta Mech **131**(1-2) 121-132 (1998), 3A495

Variational bounds of elastic constants in transversely isotropic plates, Arch Appl Mech **68**(7-8) 445-456 (Sep 1998), 3A623

Novel axisymmetric variational analysis of stress transfer into fibers through a partially debonded interface, Composites Sci Tech **58**(12) 1863-1877 (Dec 1998), 6A632

Variational treatment of exterior boundary-value problems for thin elastic plates, IMA J Appl Math **61**(2) 141-153 (Oct 1998), 6A656

Pure complementary energy principle and triality theory in finite elasticity, Mech Res Commun **26**(1) 31-37 (Jan-Feb 1999), 7T461

Mixed variational formulation in geometrically nonlinear elasticity and a generalized nth-order beam theory, Int J Non-Linear Mech **34**(4) 685-691 (Jul 1999), 9A577

Remarks on the variational description of microcracked bodies, Int J Non-Linear Mech **34**(4) 633-642 (Jul 1999), 9A578

Variational approach to the stress-transfer problem through partially debonded interfaces in a three-phase composite, Composites Sci Tech **59**(4) 519-535 (Mar 1999), 9A579

Local buckling behavior of steel plate elements supported by a plastic foam material, Struct Eng and Mech 7(5) 433-445 (May 1999), 9A711

Variational formulation for nonlocal damage models, Int J Plasticity **15**(2) 119-138 (1999), 9A848

Energy formulation for parametric size and shape optimization of compliant mechanisms, J Mech Des **121**(2) 229-234 (Jun 1999), 9A1076

Boundary mixed variational inequality in friction problem, Appl Math Mech **20**(2) 213-224 (Feb 1999), 10A517

Mixed variational formula for the thermal bending of laminated plates, J Thermal Stresses **22**(3) 347-365 (Apr 1999), 10A518

Macroscopic behavior of locking materials with microstructure - Part I: Primal and dual elastic-locking potential - Relaxation, Bull Polish Acad Sci Tech Sci **46**(3) 265-276 (1998), 11A12

Determination of the driving force acting on a kinked crack, Arch Appl Mech **69**(5) 337-344 (Jun 1999), 12A808

250H. Contact problems and inclusions

21-node hexahedral isoparametric element for analysis of contact problems, Commun Numer Methods Eng **14**(7) 681-692 (Jul 1998), 1A48

Boundary element approach for contact problems involving large displacements, Comput Struct **68**(4) 315-324 (Aug 1998), 1A534

Incremental mathematical programming model for solving multi-phase frictional contact problems, Comput Struct **68**(6) 567-581 (Sep 1998), 1A535

Internal variable theory of adhesion, J Adhesion Sci Tech **12**(8) 856-887 (1998), 1A536

Problems of the action of smooth stamps on the elastic half-space, Prikl Mekh (Appl Mech) **34**(2) 26-31 (1998), 1A537

Solving the punch problems by analogy with the interface crack problems, Int J Solids Struct **35**(30) 3945-3960 (Oct 1998), 1A538

Two-dimensional stress analysis of single-lap adhesive joints subjected to external bending moments, J Adhesion Sci Tech **12**(8) 795-812 (1998), 1A539

Analysis of a plate containing an elliptic inclusion with eigencurvatures, Arch Appl Mech **68**(6) 422-432 (Jul 1998), 1A679

Analysis of contact mechanics for a circular filamentary brush-workpart system, J Manuf Sci Eng **120**(4) 715-721 (Nov 1998), 2A186

Circular arc rigid line problem with loading on-line, J Appl Mech **65**(3) 776-778 (Sep 1998), 2T595

Contact interaction of shells of revolution in unknown 2D regions (Russian), Prikl Mekh (Appl Mech) **33**(7) 43-51 (1997), 2A602

Contact Mechanics, Eng Anal Boundary Elements **22**(1) 295-392 (Jul 1998), 2A603

Contact problems of two dissimilar anisotropic elastic bodies, J Appl Mech **65**(3) 580-587 (Sep 1998), 2A604

Finite element analysis of 3D contact and impact in large deformation problems, Comput Struct **69**(2) 219-234 (Oct 1998), 2A605

Numerical method for rolling contact problems with traction force and differential slip, Eng Anal Boundary Elements **22**(1) 51-60 (Jul 1998), 2A606

Stresses state of elastic medium containing interacting round cracks and spheroid inclusions (Russian), Prikl Mekh (Appl Mech) **34**(5) 42-47 (1998), 2A607

Parametric homogeneity and non-classical self-similarity - II: Some applications, Acta Mech **131**(1-2) 47-67 (1998), 3A110

Contact problems in terms of large deformations, Z Angew Math Mech **78**(8) 523-533 (1998), 3A496

Indentation of a sharp penetrometer in a poroelastic medium, Int J Solids Struct **35**(34-35) 4895-4904 (Dec 1998), 3A497

Poroelastic solutions in transversely isotropic media for wellbore and cylinder, Int J Solids Struct **35**(34-35) 4905-4929 (Dec 1998), 3A498

Description of the contact between a deterministic anisotropic tool surface and a workpiece subjected to plastic deformation, Proc Inst Mech Eng J Eng Manuf **212**(B5) 403-409 (1998), 3A528

Slit-like inclusion in an orthorhombic piezoelectric solid, Acta Mech **131**(1-2) 103-109 (1998), 3A654

BE hyper-singular formulation for contact problems using non-conformal discretization, Comput Struct **69**(5) 557-565 (Dec 1998), 3A949

Phragmen-Lindelof theorem for porous elastic cylinders, Z Angew Math Mech **78**(8) 571-576 (1998), 3A1429

Analysis of plane and rough contacts, subjected to a shearing force, Int J Mech Sci **41**(1) 107-120 (Jan 1999), 4A520

Finite element method for contact-impact, Finite Elements Anal Des **30**(4) 297-311 (Oct 1998), 4A521

Stress analysis of 3D contact problems using the BEM, Eng Anal Boundary Elements **22**(3) 199-214 (Oct 1998), 4A522

Exact solution for the first stage of frictional collision of a die and an elastic half-space, Quart J Mech Appl Math **51**(4) 563-576 (Nov 1998), 5A209

Analytical solutions for out-of-plane problem with concentric circular elastic inclusions (Japanese), J Soc Mat Sci Japan **47**(9) 887-891 (Sep 1998), 5A432

Antiplane shear of a strip containing a periodic array of rigid line inclusions, Math Mech Solids **3**(4) 505-512 (Dec 1998), 5A433

Development of a linear influence function for an elastic half-space, J Strain Anal Eng Des **33**(5) 357-365 (Sep 1998), 5A434

Dynamic mixed problem for a packet of elastic layers, J Appl Math Mech **62**(3) 419-425 (1998), 5A435

Inclusions of uniform eigenstrains and constant or other stress dependence, J Appl Mech **65**(4) 863-866 (Dec 1998), 5A436
Inclusions with constant eigenstress, J Mech Phys Solids **46**(12) 2297-2301 (Dec 1998), 5A437
Optimization of structures in unilateral contact, Appl Mech Rev **52**(4) 139-160 (Apr 1999), 5A438
Solution of the displacement boundary value problem of an interface between two dissimilar half-planes and a rigid elliptic inclusion at the interface, J Appl Mech **65**(4) 880-888 (Dec 1998), 5A439
Stress field in sliding ellipsoidal inclusions with shear eigenstrain, J Appl Mech **65**(4) 858-862 (Dec 1998), 5A440
Tangential loading of general 3D contacts, J Appl Mech **65**(4) 998-1003 (Dec 1998), 5A441
Diffraction of plane deformation waves on a round cylindrical cavity with rigid fixed inclusion in rectilinear orthotropic medium (Russian), Prikl Mekh (Appl Mech) **34**(9) 55-63 (1998), 6A226
Duality methods for the contact problem in elasticity, Comput Methods Appl Mech Eng **167**(3-4) 275-282 (Dec 1998), 6A529
Model for sintering and coarsening of rows of spherical particles, Mech Mat **31**(1) 43-61 (Jan 1999), 6A530
Second-order elastic analysis of dilute distribution of spherical inclusions, Mech Mat **31**(1) 1-8 (Jan 1999), 6A531
Determining effective contact stiffness between striker and composite shell, Composite Struct **43**(2) 137-145 (Oct 1998), 6A615
Bonded contact of a flexible elliptical disk with a transversely isotropic half-space, Int J Solids Struct **36**(13) 1965-1983 (May 1999), 7A468
Counter-example to uniqueness in quasi-static elastic contact problems with small friction, Int J Eng Sci **37**(2) 163-178 (Jan 1999), 7A469
General conjugate-gradient-based predictor-corrector solver for explicit FE contact, Int J Numer Methods Eng **44**(4) 439-459 (Feb 1999), 7A470
In-plane loading of rigid disc inclusion embedded in a crack, Int J Solids Struct **36**(11) 1701-1714 (Apr 1999), 7A471
Reliability of solutions in contact problems, Comput Struct **70**(1) 35-45 (Jan 1999), 7A472
Sliding contact between a blunt wedge and an elastically dissimilar half-plane, J Strain Anal Eng Des **33**(6) 469-472 (Nov 1998), 7A473
Three-phase elliptical inclusions with internal uniform hydrostatic stresses, J Mech Phys Solids **47**(2) 259-273 (Feb 1999), 7A474
Two-dimensional elastic contact analysis by coupling FE and BEMs, J Strain Anal Eng Des **33**(6) 459-468 (Nov 1998), 7A475
Scaling relationships in conical indentation of elastic-perfectly plastic solids, Int J Solids Struct **36**(8) 1231-1243 (Mar 1999), 7A513
Contact behavior between laminated composites and rigid impactors, Composite Struct **43**(3) 165-178 (Nov 1998), 7A521
Stress analysis of finite composite laminates with elliptical inclusion, Comput Struct **70**(3) 357-361 (Feb 1999), 7A579
Elastic field of an elliptic cylindrical inclusion in a laminate with multiple isotropic layers, J Appl Mech **66**(1) 165-171 (Mar 1999), 8A524
Problem of rigid inclusions between two dissimilar elastic half-spaces with smooth surfaces, Int J Solids Struct **36**(17) 2633-2636 (Jun 1999), 8A525
Unified model for piezocomposites with non-piezoelectric matrix and piezoelectric ellipsoidal inclusions, Int J Solids Struct **36**(18) 2707-2733 (Jun 1999), 8A570
Influence of layers with low transverse stiffness on the contact response of composite half planes, Composites Sci Tech **59**(3) 331-343 (Feb-Mar 1999), 8A596
Accurate and efficient tangential force-displacement model for elastic frictional contact in particle-flow simulations, Mech Mat **31**(4) 235-269 (Apr 1999), 9A580
Rolling contact with friction of a cylindrical wheel on a strip, Machine Dyn Prob **20** 49-72 (1998), 9A581
Simultaneous solution of the governing equations of the thermo-elastohydrodynamic line contact problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 461-480 (1998), 9A582
Study of indentation by using domain decomposition and BEMs on a microcomputer, Adv Eng Software **30**(4) 243-253 (Apr 1999), 9A583
Multiphase model for materials reinforced by linear inclusions (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 7-12 (Jan 1999), 9A654
Effect of physical nonlinearity of material on the stressed state of the medium with elastic spherical inclusion under uniform loading (Russian), Prikl Mekh (Appl Mech) **34**(11) 46-51 (1998), 10A508
Analytic solution for Eshelby's problem of an inclusion of arbitrary shape in a plane or half-plane, J Appl Mech **66**(2) 315-322 (Jun 1999), 10A519
Antiplane deformation of isotropic body with a periodic system of thin rectilinear inclusions, J Theor Appl Mech **37**(1) 65-79 (1999), 10T520
Inclusion pair interaction problem with nonlinear interface, J Mech Phys Solids **47**(7) 1477-1508 (Jul 1999), 10A521
Indentation by nominally flat or conical indenters with rounded corners, Int J Solids Struct **36**(27) 4149-4181 (Sep 1999), 10A522
Influence of general surface loading on penetration of a circular punch into an elastic stratum, Eng Trans **46**(2) 205-215 (1998), 10A523
Novel formulation for the exterior-point Eshelby's tensor of an ellipsoidal inclusion, J Appl Mech **66**(2) 570-574 (Jun 1999), 10T524
Periodic contact problem for an elastic half-space, J Appl Math Mech **62**(6) 959-966 (1999), 10A525
Plane contact problem for a half-space with boundary imperfections, Int J Solids Struct **36**(24) 3569-3579 (Aug 1999), 10A526
Receding contact between an orthotropic layer and an orthotropic half-space, Arch Mech **50**(4) 743-755 (1998), 10T527
Rigid sheet-like interface inclusion in an infinite bimaterial periodically layered composite, J Theor Appl Mech **37**(1) 81-94 (1999), 10T528
Singular integral equation method in the analysis of interaction between rectangular inclusions, JSME Int J Ser A **41**(3) 303-308 (Jul 1998), 10A529
Solving contact problem with friction by a new fast BEM, Chinese J Mech Eng **11**(3) 201-206 (Sep 1998), 10A530
Stress-strained state of transversally isotropic body with paraboloidal incorporations (Russian), Prikl Mekh (Appl Mech) **34**(11) 16-22 (1998), 10A531
Effect of friction on subsurface stresses in sliding line contact of multilayered elastic solids, Int J Solids Struct **36**(26) 3903-3915 (Sep 1999), 10A637
Elastic and electric fields for elliptical Hertzian contact for transversely isotropic piezoelectric bodies, J Appl Mech **66**(2) 560-563 (Jun 1999), 10T749
Analysis and tests of bonded insulated rail joints subjected to vertical wheel loads, Int J Mech Sci **41**(10) 1253-1272 (Oct 1999), 10A1065
Axisymmetric stress analysis and strength of bonded shrink-fitted joints of solid shaft subjected to torsional loading, JSME Int J Ser A **41**(4) 517-524 (Oct 1998), 10A1066
Axisymmetric stress analysis and strength of bonded shrink-fitted joints subjected to push-off forces, JSME Int J Ser A **40**(4) 362-374 (Oct 1997), 10A1067
Basic theory of the principle of elastic conjugate surfaces, J Chinese Soc Mech Eng **20**(2) 183-190 (Apr 1999), 11A465
Boundary element analysis of elastic contact problems using gap FEs, Comput Struct **71**(6) 651-661 (Jun 1999), 11A466
Class of frictional contact problems with proportional response to proportional loading, Mech Res Commun **26**(2) 197-202 (Mar-Apr 1999), 11T467
Closed form solution for rectangular inclusions with quadratic eigenstrains, Int J Eng Sci **37**(10) 1261-1276 (Aug 1999), 11A468
Shrink-fit peg subject to bending and shearing forces, J Strain Anal Eng Des **34**(1) 23-29 (Jan 1999), 11A469
Theory of indentation of piezoelectric materials, Acta Mat **47**(7) 2153-2164 (May 1999), 11A470
Thermoelasticity and contact, J Thermal Stresses **22**(4-5) 513-525 (May-Jul 1999), 11A1448
Contact problem for orthotropic foundation slabs with consideration of deformation peculiarities of spatial and nonhomogeneous bases, Stud Geotech Mech **20**(1-2) 63-104 (1998), 12A55
Elastic deformation properties of blanket in offset printing due to rolling contact (Japanese), J Japan Soc Precision Eng **65**(5) 730-735 (May 1999), 12A550
Dynamic motion of two elastic half-spaces in relative sliding without slipping, J Trib **121**(3) 455-461 (Jul 1999), 12A567
Averaged mechanical properties of prismatic lattice formed by ellipsoidal inclusions, Arch Appl Mech **69**(4) 240-256 (May 1999), 12A572
Capillary adhesion in the contact between elastic solids, J Appl Math Mech **63**(1) 117-125 (1999), 12A573
Contact of a solid with an elastic half-space through a thin coating, J Appl Math Mech **63**(1) 109-116 (1999), 12A574
Contact problem of the theory of consolidation for a strip, J Appl Math Mech **63**(1) 127-136 (1999), 12A575
Impression with adhesion of a punch into an elastic half-plane under a tangential load, J Appl Math Mech **63**(1) 101-107 (1999), 12A576
Indentation of a transversely isotropic piezoelectric half-space by a rigid sphere, Acta Mech Solida Sinica **12**(2) 114-120 (Jun 1999), 12A577
Power evaluation of the influence of roughness on the value of contact stress for interaction of rough cylinders, Arch Mech **50**(6) 1003-1014 (1998), 12A578
Problem of a wedge-shaped punch on the face of an elastic wedge, J Appl Math Mech **63**(1) 141-144 (1999), 12A579
Prediction of elastic moduli of porous materials with equivalent inclusion method, J Reinforced Plastics Composites **18**(7) 594-605 (1999), 12A638

250I. Anisotropic media

Elastic eigenstates in FE modeling of large anisotropic elasticity, Comput Methods Appl Mech Eng **160**(3-4) 325-335 (Jul 1998), 1A540
Internal variables in macrodynamics of 2D periodic cellular media, Arch Mech **50**(1) 3-19 (1998), 1T541
Universal bounds for effective piezoelectric moduli, Mech Mat **30**(1) 1-19 (Sep 1998), 1A542
Integral solution of the antiplane shear problem, Math Mech Solids **3**(3) 319-330 (Sep 1998), 2A596
Contact problems of two dissimilar anisotropic elastic bodies, J Appl Mech **65**(3) 580-587 (Sep 1998), 2A604
Analysis for elastic strips under concentrated loads, J Appl Mech **65**(3) 626-634 (Sep 1998), 2A608
Solution of the spatial dynamic problem of the elasticity theory for anisotropic bodies (Russian), Prikl Mekh (Appl Mech) **34**(5) 24-31 (1998), 2A609
Development of tensor function in the continuum mechanics of anisotropic materials (German), Z Angew Math Mech **78**(8) 507-521 (1998), 3A3
Relation between the equations of the 2D theory of elasticity for anisotropic and isotropic bodies, J Appl Math Mech **62**(2) 319-321 (1998), 3A499
Spherical indentation of composite laminates with controlled gradients in elastic anisotropy, Int J Solids Struct **35**(36) 5097-5113 (Dec 1998), 3A500
Completely regularized integral representations and integral equations for anisotropic bodies with initial strains, Z Angew Math Mech **78**(11) 771-780 (1987), 4A523
Functional bases for transversely isotropic and transversely hemitropic invariants of elasticity tensor, Quart J Mech Appl Math **51**(4) 543-552 (Nov 1998), 5A422
Formulation of linearized boundary integral equations of the anisotropic theory of elasticity and their application in geometrical inverse problems, J Appl Math Mech **62**(3) 435-442 (1998), 5A442
Damage and Failure of Interfaces (Balkema, Rotterdam, Netherlands, 1997) 6N21
Transverse decay of solutions in an elastic cylinder, Meccanica **33**(6) 577-585 (Dec 1998), 6A521
Analytical methodology for solving anisotropic materials of antiplane problems, Struct Eng and Mech **7**(2) 147-157 (Feb 1999), 6A532
Interaction of an edge dislocation with an elliptical hole in a rectilinearly anisotropic body, Mech Mat **31**(1) 71-93 (Jan 1999), 6A533
Analytical characterization of the anisotropy of the elastic modulus of misaligned short-fiber-reinforced polymers, Composites Sci Tech **58**(12) 1961-1972 (Dec 1998), 6A595
Thermoelastic contact with thermal resistance of anisotropic subspaces (Russian), Prikl Mekh (Appl Mech) **34**(7) 27-33 (1998), 6A1401
Asymptotic model of orthotropic highly inhomogeneous layered structure, Mech Mat **31**(2) 101-115 (Feb 1999), 7A476
Choice of stress-dependent elastic moduli for transversely isotropic solids, Mech Res Commun **26**(1) 45-54 (Jan-Feb 1999), 7T477
Elastic solutions for a transversely isotropic half-space subjected to buried asymmetric-loads, Int J Numer Anal Methods Geomech **23**(2) 115-139 (Feb 1999), 7A478
Generalization of the Stroh formalism to 3D anisotropic elasticity, J Elast **51**(3) 213-225 (1998), 7A479
Introduction to Modern Anisotropic Elasticity (Begell House, New York, 1998) 8R14
Problems of the concentration of elastic stresses near defects in spherically multilayered media, J Appl Math Mech **62**(5) 777-789 (1998), 8A526
Solids with non-spherical cavities: Simplified representations of cavity compliance tensors and the overall anisotropy, J Mech Phys Solids **47**(4) 877-898 (Apr 1999), 8A527
Laser-induced deformation patterns in thin films and surfaces, J Eng Mat Tech **121**(2) 182-188 (Apr 1999), 8A554
Investigation of macrocrack-microcrack interaction problems in anisotropic elastic solids - Part I: General solution to the problem and application of the J-integral, Int J Fracture **91**(1) 61-82 (1998), 9A901
Stress-strained state of transversally isotropic body with paraboloidal incorporations (Russian), Prikl Mekh (Appl Mech) **34**(11) 16-22 (1998), 10A531
Effect of heat resistance on the contact interaction of anisotropic half-planes (Russian), Prikl Mekh (Appl Mech) **35**(2) 54-59 (1999), 10A532
Effects of elastic anisotropy on strain localization and flutter instability in plastic solids, J Mech Phys Solids **47**(7) 1409-1436 (Jul 1999), 10A593
Fabric tensors in bone mechanics, Eng Trans **46**(1) 3-26 (1998), 10A1607
Calculation of interior point stresses in 2D BE analysis of anisotropic bodies with body forces, J Strain Anal Eng Des **34**(2) 117-128 (Mar 1999), 11A74
Mechanical behavior of a μm-sized single crystal silicon structure with sharp notches, J Mech Phys Solids **47**(8) 1795-1821 (Aug 1999), 11A460
Stress analysis of notched anisotropic finite plates under mechanical and hygrothermal loads, Arch Appl Mech **69**(3) 145-159 (Apr 1999), 11A462
Boundary integral equations for thin asymmetric anisotropic laminates with corner points and corner forces (French), Comptes Rendus L'Acad Sci Serie II **327**(6) 567-572 (Jun 1999), 11A471
Bonded joints with nonhomogeneous adhesives, J Elast **53**(1) 23-35 (1998), 12A580
Remarkable nature of radially symmetric deformation of spherically uniform linear anisotropic elastic solids, J Elast **53**(1) 47-64 (1998), 12A581
Stress effect decay estimates for anisotropic material in a semi-infinite strip, Appl Math Mech **20**(3) 300-308 (Mar 1999), 12A582

250J. Nonhomogeneous media

Variational methods for the homogenization of periodic heterogeneous media, Eur J Mech A **17**(4) 599-617 (1998), 1A533
Universal bounds for effective piezoelectric moduli, Mech Mat **30**(1) 1-19 (Sep 1998), 1A542
Internal stresses and strains in coherent multilayers, Acta Mat **46**(11) 3761-3766 (Jul 1998), 1A543
Results in the dynamical theory of porous elastic bodies, J Elast **50**(1) 3-14 (1998), 2A593
Torsion of an infinite composite elastic cylindrical shell, Acta Mech **130**(1-2) 135-141 (1998), 2A687
From mixture theory to Biot's approach for porous media, Int J Solids Struct **35**(34-35) 4619-4635 (Dec 1998), 3A11
Transmission loss in a shallow ocean over a two-layer seabed, Int J Solids Struct **35**(34-35) 4779-4801 (Dec 1998), 3A14
Volume averaging, effective stress rules, and inversion for microstructural response of multicomponent porous media, Int J Solids Struct **35**(34-35) 4811-4843 (Dec 1998), 3A15
Singular integral equations and fundamental solutions of poroelasticity, Int J Solids Struct **35**(34-35) 4521-4555 (Dec 1998), 3A488
Indentation of a sharp penetrometer in a poroelastic medium, Int J Solids Struct **35**(34-35) 4895-4904 (Dec 1998), 3A497
Poroelastic solutions in transversely isotropic media for wellbore and cylinder, Int J Solids Struct **35**(34-35) 4905-4929 (Dec 1998), 3A498
Limit analysis of unidirectional porous media, Mech Res Commun **25**(5) 535-542 (Sep-Oct 1998), 3T501
Antiplane strain of the two-component isotropic mixture (Russian), Prikl Mekh (Appl Mech) **34**(6) 73-84 (1998), 4A524
Exact solutions for functionally graded and laminated elastic materials, J Mech Phys Solids **46**(12) 2283-2295 (Dec 1998), 5A513
Constitutive equations of finite strain poroelasticity in the light of a micro-macro approach, Eur J Mech A **17**(6) 909-921 (Nov-Dec 1998), 5A1452
Application of multilayer feedforward networks to the parameter identification of non-uniform media (Chinese), J Huazhong Univ Sci Tech **26**(10) 19-21 (Oct 1998), 6A330
Generalized anti-plane strain problems for an inhomogeneous elastic halfspace, J Eng Math **34**(4) 403-416 (Nov 1998), 6A534
Interrelation of deformation relaxational and heat-mass-exchange processes under drying of capillary-porous bodies (Russian), Prikl Mekh (Appl Mech) **34**(7) 101-107 (1998), 6A1469
Papkovich-Neuber solution for a mixture of two elastic solids and Kelvin problem, Int J Eng Sci **37**(4) 497-507 (Mar 1999), 7A480
Bounds for the elastic shear moduli of isotropic and quasi-symmetric composites, and exact modulus of the coated sphere assemblage, Math Mech Solids **4**(1) 57-69 (Mar 1999), 7A537
Penny-shaped crack in inhomogeneous elastic materials under normal extension, Int J Solids Struct **36**(13) 1869-1882 (May 1999), 7A752
Domain decomposition method for bodies with heterogeneous microstructure based on material regularization, Int J Solids Struct **36**(17) 2507-2525 (Jun 1999), 8A10
Effective thermoelectroelastic properties of microinhomogeneous materials, Int J Solids Struct **36**(18) 2683-2705 (Jun 1999), 8A11
New estimates of overall properties of heterogeneous solids, J Mech Phys Solids **47**(4) 899-920 (Apr 1999), 8A14
Elastic field of an elliptic cylindrical inclusion in a laminate with multiple isotropic layers, J Appl Mech **66**(1) 165-171 (Mar 1999), 8A524
Circular inhomogeneity problem revisited, J Appl Mech **66**(1) 276-278 (Mar 1999), 8T528
Elastostatic analysis in harmonically nonhomogeneous medium using BEM, Strojnicky Casopis **50**(1) 38-51 (1999), 8A529
Force on an elastic singularity in a nonhomogeneous medium, J Mech Phys Solids **47**(4) 993-998 (Apr 1999), 8A530
Higher-order theory for plane stress conditions of laminates consisting of isotropic layers, J Appl Mech **66**(1) 95-100 (Mar 1999), 8A531

St Venant problems for inhomogeneous circular bars, J Appl Mech **66**(1) 32-40 (Mar 1999), 8A532
Consistency check for strongly interacting multiple crack problems in isotropic, bimaterial and orthotropic bodies, Int J Fracture **89**(4) 333-353 (1998), 9A898
Analysis for stress singularity field at a vertex in 3D bonded structures, JSME Int J Ser A **42**(1) 80-89 (Jan 1999), 10A511
Random elastic media: Why zero mean stress does not imply zero mean strain, Arch Mech **50**(3) 451-458 (1998), 10A533
Random field models and scaling laws of heterogenous media, Arch Mech **50**(3) 549-558 (1998), 10T534
Spectral analysis of a perturbed multistratified isotropic elastic strip: New method, Math Methods Appl Sci **22**(8) 689-716 (May 1999), 10T535
Conditions at an interface between two materials in 3D space, Math Mech Solids **4**(2) 183-200 (Jun 1999), 11A454
Effect of thin film stress on the elastic strain energy of Cr thin film on substrate, Acta Mat **47**(7) 2177-2184 (May 1999), 11A472
Elastic fields of interacting elliptic inhomogeneities, Int J Solids Struct **36**(30) 4523-4541 (Oct 1999), 11A473
Self-consistent approach to coalescence of cavities in inhomogeneously voided ductile solids, J Mech Phys Solids **47**(9) 1823-1841 (Sep 1999), 12A811

250K. Residual stresses

In situ evaluation of residual stresses in an organic die-attach adhesive, J Electron Packaging **120**(3) 314-318 (Sep 1998), 1A544
Simplified analysis of residual stresses in in-situ cured hoop-wound rings, J Composite Mat **32**(13) 1325-1343 (1998), 1A669
Residual stresses in micro-structures fabricated by the IC-compatible sacrificial layer technique, Mechatronics **8**(5) 427-440 (Aug 1998), 3T450
Effects of fixed charges on the stress-relaxation behavior of hydrated soft tissues in a confined compression problem, Int J Solids Struct **35**(34-35) 4945-4962 (Dec 1998), 3A502
Residual stress and a crack due to displacement constraint for thin plate bending problem (Japanese), Proc JSCE **598**(I-44) 391-400 (Jul 1998), 3A503
Acoustoelastic determination of residual stress by measurement of resonance peaks and phase shifts, J Nondestruct Eval **17**(2) 89-102 (Jun 1998), 3A862
General form for calculating residual stresses detected by using the holographic blind-hole method, Exp Mech **38**(4) 255-260 (Dec 1998), 5A443
Numerical and experimental analysis of quench induced stresses and microstructures, J Mech Behavior Mat **9**(4) 237-256 (1998), 7A481
Determining residual stress from boundary measurements: A linearized approach, J Elast **52**(1) 63-73 (1998), 8A533
X-ray analysis of residual stresses in C-SiC composites, Appl Composite Mat **6**(1) 51-66 (Jan 1998), 8A819
Computational Conformal Mapping (Birkhauser Boston, MA, 1998) 9N35
Natural frequencies of composite plates with tailored thermal residual-stresses, Int J Solids Struct **36**(23) 3517-3539 (Aug 1999), 10A209
Optimal calculation steps for the evaluation of residual stress by the incremental hole-drilling method, Exp Mech **39**(2) 117-124 (Jun 1999), 11A506

250Y. Computational techniques

A posteriori error estimation in large-strain elasticity using equilibrated local Neumann problems, Comput Methods Appl Mech Eng **161**(1-2) 77-101 (Aug 1998), 1A44
Application of computer-generated finite-difference equations to decision and inverse problems in elasticity, Comput Struct **68**(5) 529-541 (Sep 1998), 1A545
Fast solution method for 3D many-particle problems of linear elasticity, Int J Numer Methods Eng **42**(7) 1215-1229 (Aug 1998), 1A546
Finite element formulation of the Ogden material model with application to rubber-like shells, Int J Numer Methods Eng **42**(7) 1279-1305 (Aug 1998), 1A547
Rayleigh-Ritz solution for local stresses in composite laminates, Composites Sci Tech **58**(3-4) 447-461 (Mar-Apr 1998), 1A655
Package-to-board attach reliability: Methodology and case study on OMPAC package, J Electron Packaging **120**(3) 290-295 (Sep 1998), 1A1383
Complex fundamental solutions and complex variables BEM in elasticity, Comput Mech **22**(1) 88-92 (Jul 1998), 2A610
Evaluation of the anisotropic Green's function and its derivatives, Comput Struct **69**(2) 247-254 (Oct 1998), 2A611
Integral kernels in the 2D Somigliana displacement and stress identities for anisotropic materials, Comput Mech **22**(1) 77-87 (Jul 1998), 2A612
Pollution controlled hybrid interior error estimator for linear elastostatics, Int J Numer Methods Eng **43**(3) 507-532 (Oct 1998), 2A613
Quadrilateral FEs for planar linear elasticity problem with large Lambe constant, J Comput Math **16**(4) 357-366 (Jul 1998), 2A614
Singular integral equations and fundamental solutions of poroelasticity, Int J Solids Struct **35**(34-35) 4521-4555 (Dec 1998), 3A488
Hypersingular boundary contour method for 2D linear elasticity, Acta Mech **130**(3-4) 209-225 (1998), 3A489
Derivation of exact expressions for 2D singular and finite-part integrals applicable in solid mechanics, Eng Anal Boundary Elements **22**(2) 125-132 (Sep 1998), 3A504
Least-squares mixed FEs for linear elasticity problems with nonhomogeneous boundary conditions, Z Angew Math Mech **78**(9) 641-645 (1998), 3A505
Computational methods for inverse deformations in quasi-incompressible finite elasticity, Int J Numer Methods Eng **43**(5) 821-838 (Nov 1998), 4A525
Solution of the 3D elasticity problems of mechanics by the method of boundary integral equations (Russian), Prikl Mekh (Appl Mech) **34**(6) 45-53 (1998), 4A526
Overlapping Schwarz methods for mixed linear elasticity and Stokes problems, Comput Methods Appl Mech Eng **165**(1-4) 233-245 (Nov 1998), 4A1077
Introduction to programming the meshless element free Galerkin method, Arch Comput Methods Eng **5**(3) 207-241 (1998), 5A13
Symmetric Galerkin BEMs, Appl Mech Rev **51**(11) 669-704 (Nov 1998), 5A55
Assumed enhanced displacement gradient ring-element for finite deformation axisymmetric and torsional problems, Int J Numer Methods Eng **43**(8) 1369-1382 (Dec 1998), 5A444
Coupling of boundary integral and FEMs for Signorini problems, J Comput Math **16**(6) 561-570 (Nov 1998), 5A445
Numerical analysis of coupled thermomechanical frictional contact problems: Computational model and applications, Arch Comput Methods Eng **5**(3) 243-301 (1998), 5A446
Numerical stability in regular BEM schemes for elastostatic problems, Eng Anal Boundary Elements **22**(4) 281-289 (Dec 1998), 5A447
Several new methods to polar decomposition computation, Acta Mech Solida Sinica **11**(4) 329-340 (1998), 6A3
Solution of stationary problems of the theory of elasticity at high-gradient loads and localized mass and rigidity inhomogeneities (Russian), Prikl Mekh (Appl Mech) **34**(9) 39-45 (1998), 6A516
ALE formulation and its application in solid mechanics, Comput Methods Appl Mech Eng **167**(1-2) 33-55 (Dec 1998), 6A535
Errors due to approximating unbounded elastic bodies by bounded ones, J Appl Math Mech **62**(4) 605-616 (1998), 6A536
Preconditioning methods for very ill-conditioned 3D linear elasticity problems, Int J Numer Methods Eng **44**(1) 77-99 (Jan 1999), 6A537
Mixed state Hamilton elements (Chinese), J Dalian Univ Tech **39**(1) 12-16 (Jan 1999), 7A48
Systematic construction of B-bar functions for linear and nonlinear mixed-enhanced FEs for plane elasticity problems, Int J Numer Methods Eng **44**(5) 615-639 (Feb 1999), 7A50
New boundary integral formulation for plane elastic bodies containing cracks and holes, Int J Solids Struct **36**(14) 2041-2074 (May 1999), 7A66
Domain supplemental approach to avoid boundary layer effect of BEM in elasticity, Eng Anal Boundary Elements **23**(3) 281-284 (Mar 1999), 7A482
Robust and scalable linear elasticity solver based on a saddle point formulation, Int J Numer Methods Eng **44**(6) 801-818 (Feb 1999), 7A483
Two-dimensional for geometrically nonlinear elastic problems using the BEM, Eng Anal Boundary Elements **23**(3) 247-256 (Mar 1999), 7A484
Determining residual stress from boundary measurements: A linearized approach, J Elast **52**(1) 63-73 (1998), 8A533
Semi-analytical method for the calculation of the elastic micro-fields in plain weave fabric composites subjected to in-plane loading, J Composite Mat **33**(3) 221-266 (1999), 8A601
Inverse Problems in Engineering Mechanics (Elsevier Sci BV, Netherlands, 1998) 9N27
New stabilization technique for FEs in nonlinear elasticity, Int J Numer Methods Eng **44**(11) 1617-1652 (Apr 1999), 9A43
Galerkin boundary contour method for 2D linear elasticity, Comput Mech **23**(1) 53-62 (Feb 1999), 9A584
Mixed finite volume formulation for determining the small strain deformation of incompressible materials, Int J Numer Methods Eng **44**(12) 1843-1861 (Apr 1999), 9A585
Multigrid methods for the computation of singular solutions and stress intensity factors - I: Corner singularities, Math Comput **68**(226) 559-583 (Apr 1999), 9A586
Robust multilevel method applied for solving large-scale linear elasticity problems, Commun Numer Methods Eng **15**(3) 153-165 (Mar 1999), 9A587
Thermomechanical models of pure metal solidification on a periodic mold surface, J Thermal Stresses **22**(2) 125-158 (Mar 1999), 9A1429
Iterative technique for the FE analysis of near-incompressible materials, Comput Methods Appl Mech Eng **170**(1-2) 79-101 (Feb 1999), 10A47
Weakly singular stress-BEM for 2D elastostatics, Int J Numer Methods Eng **45**(1) 13-35 (May 1999), 10A78
Singular integral equation method in the analysis of interaction between rectangular inclusions, JSME Int J Ser A **41**(3) 303-308 (Jul 1998), 10A529
Roots of certain transcendental equations for elastic angular regions, Comput Methods Appl Mech Eng **173**(1-2) 217-225 (Apr 1999), 10A536
Approximation of singular source terms in differential equations, Numer Methods PDE **15**(4) 503-520 (Jul 1999), 11A332
Fast Fourier-BEM for axisymmetric potential and elasticity problems with arbitrary boundary conditions, Comput Mech **23**(3) 258-270 (Apr 1999), 11A474
Multilevel methods for Wilson element approximation of elasticity problem, Comput Methods Appl Mech Eng **174**(1-2) 191-201 (May 1999), 11A475
Finite element solutions for optimal triangular plates, Int J Mech Sci **41**(11) 1289-1300 (Nov 1999), 12A26
Boundary integral formulation of the plane theory of elasticity with applications: Analytical aspects, J Comput Appl Math **106**(1) 55-70 (Jun 1999), 12A63
Neural network method to determine maximum stress value of stress concentration point (Chinese), J Dalian Univ Tech **39**(3) 367-371 (May 1999), 12A569
Numerical solution of singular integral equations in stress concentration problems under longitudinal shear loading, Arch Appl Mech **69**(4) 257-264 (May 1999), 12A570
Direct method of lines for the problem of infinite elastic foundation, Comput Methods Appl Mech Eng **175**(1-2) 157-173 (Jun 1999), 12A583
Improvement for tensile instability in smoothed particle hydrodynamics, Comput Mech **23**(4) 279-287 (May 1999), 12A584

252. VISCOELASTICITY

252A. General theory

Study on the rheological behavior of polymer metals and concentrated solutions, Appl Mech Eng **2**(4) 475-510 (1997), 1A548
Variational principles on static-dynamic analysis of viscoelastic thin plates with applications, Int J Solids Struct **35**(33) 4491-4505 (Nov 1998), 1A549
Nonlinear viscoelastic model: The pseudo-linear model, Eur J Mech A **17**(4) 567-598 (1998), 1A553
Theoretical and numerical aspects in the thermo-viscoelastic material behavior of rubber-like polymers, Mech Time-Dependent Mat **1**(4) 357-396 (1997), 1A1367
Localization and Fracture Phenomena in Inelastic Solids (Springer-Verlag, Wien, 1998) 2N13
One-dimensional pseudoelastic theory of shape memory alloys, Smart Mat Struct **7**(4) 489-495 (Aug 1998), 2A615
Realization of GHM models in viscoelasticity, J Intelligent Mat Syst Struct **8**(11) 986-993 (Nov 1997), 2A616
Fluid Mechanics of Viscoelasticity (Elsevier Sci BV, Netherlands, 1997) 3R14
Algebraic extra-stress models for the simulation of viscoelastic flows, J Non-Newtonian Fluid Mech **79**(2-3) 261-281 (Nov 1998), 4A527
Orthogonal versus parallel superposition measurements, J Non-Newtonian Fluid Mech **79**(2-3) 173-189 (Nov 1998), 4A531
Sampling localization and duality algorithms in practice, J Non-Newtonian Fluid Mech **79**(2-3) 235-253 (Nov 1998), 4A535
Thermoviscoelasticity: Continuum-molecular connections, J Non-Newtonian Fluid Mech **79**(2-3) 255-259 (Nov 1998), 4A538
Decay rates of solutions to thermoviscoelastic plates with memory, IMA J Appl Math **60**(3) 263-283 (Jun 1998), 4A1407
Damping described by fading memory: Analysis and application to fractional derivative models, Int J Solids Struct **36**(7) 939-970 (Mar 1999), 6A7
Formulation and integration of the standard linear viscoelastic solid with fractional order rate laws, Int J Solids Struct **36**(16) 2417-2442 (Jun 1999), 7A485
Methods of interconversion between linear viscoelastic material functions - Part I: A numerical method based on Prony series, Int J Solids Struct **36**(11) 1653-1675 (Apr 1999), 7A486
Methods of interconversion between linear viscoelastic material functions - Part II: An approximate analytical method, Int J Solids Struct **36**(11) 1677-1699 (Apr 1999), 7A487
Report on the IUTAM symposium on viscoelastic fluid mechanics: Effects of molecular modeling, J Non-Newtonian Fluid Mech **82**(2-3) 135-452 (May 1999), 8A534
Sain-Venant's principle for micropolar viscoelastic bodies, Int J Eng Sci **37**(7) 883-893 (May 1999), 10A537
Thermodynamic functions for ageing viscoelasticity: Integral form without internal variables, Int J Solids Struct **36**(26) 3993-4016 (Sep 1999), 10A538
Thermodynamic theory of generalized thermotheologically simple viscoelastic ferromagnetic materials with the damping memory (Russian), Prikl Mekh (Appl Mech) **35**(1) 45-49 (1999), 10T539
Extension of dissipative particle dynamics for viscoelastic flow modeling, J Non-Newtonian Fluid Mech **83**(3) 231-248 (Jul 1999), 11A476
Time domain modeling of damping using anelastic displacement fields and fractional calculus, Int J Solids Struct **36**(29) 4447-4472 (Oct 1999), 11A477
Unified elastic-viscosic-plastic theory of solids, Appl Math Mech **20**(3) 254-261 (Mar 1999), 12A602

252B. Linear theory

Linear thermoviscoelasticity - Part I: A functional model, Acta Mech **130**(3-4) 175-183 (1998), 3A1335
Linear thermoviscoelasticity - Part II: Energy balances, Acta Mech **130**(3-4) 185-197 (1998), 3A1336
Viscoelastic Solids (CRC Press, Boca Raton FL, 1998) 4R11
Dissipative heating of a solid circular viscoelastic cylinder under steady motion of the normal load on its surface (Russian), Prikl Mekh (Appl Mech) **34**(6) 39-44 (1998), 4A1403
Rheological modeling of the peeling of pressure-sensitive adhesives and other elastomers, Int J Adhesion Adhesives **18**(5) 333-343 (Oct 1998), 5A884
Thermodynamic restrictions, free energies and St-Venant's principle in the linear theory of viscoelastic materials with voids, Int J Solids Struct **36**(13) 1949-1964 (May 1999), 7A488
Stability of viscoelastic shear flows subjected to steady or oscillatory transverse flow, J Fluid Mech **379** 255-277 (Jan 1999), 8A1163
Method of solution of boundary value problems of the linear theory of viscoelasticity (Russian), Prikl Mekh (Appl Mech) **34**(12) 77-85 (1998), 10A540
Mechanical response of linear viscoelastic composite laminates incorporating non-isothermal physical aging effects, Composites Sci Tech **59**(9) 1411-1427 (Jul 1999), 12A627

252C. Nonlinear and finite deformation problems

Instability condition of the deformation process in elasto-(visco)-nonlinear materials, Mech Res Commun **25**(4) 437-442 (3Jul-Aug 1998), 1T550
Nonlinear viscoelastic behavior of polymer-matrix composites, Composites Sci Tech **58**(6) 883-889 (Jun 1998), 1A551
Nonlinear viscoelastic model for 1D response of elastomeric bushings, Int J Mech Sci **40**(12) 1295-1305 (Dec 1998), 1A552
Nonlinear viscoelastic model: The pseudo-linear model, Eur J Mech A **17**(4) 567-598 (1998), 1A553
Phragmen-Lindelof alternative in nonlinear viscoelasticity, Nonlinear Anal **34**(1) 7-16 (Oct 1998), 1T554
Coupling between a viscoelastic gas-liquid interface and a swirling vortex flow, J Fluids Eng **120**(4) 655-661 (Dec 1998), 3A506
Delayed-die swell and sedimentation of elongated particles in wormlike micellar solutions, J Non-Newtonian Fluid Mech **79**(2-3) 157-171 (Nov 1998), 4A528
Flow of a viscoelastic fluid between eccentric cylinders: Impact on flow stability, J Non-Newtonian Fluid Mech **80**(1) 59-87 (Dec 1998), 4A529
Maximum dissipation evolution equations for nonlinear thermoviscoelasticity, Int J Non-Linear Mech **34**(2) 361-385 (Mar 1999), 4A530
Orthogonal versus parallel superposition measurements, J Non-Newtonian Fluid Mech **79**(2-3) 173-189 (Nov 1998), 4A531
Theoretical investigation of interfacial instabilities in the three layer superposed channel flow of viscoelastic fluids, J Non-Newtonian Fluid Mech **79**(2-3) 315-360 (Nov 1998), 4A532
Three dimensional numerical-experimental study on a stagnation flow of a polyisobutylene solution, J Non-Newtonian Fluid Mech **79**(2-3) 529-561 (Nov 1998), 4T533
Extensional deformation, stress relaxation and necking failure to viscoelastic filaments, J Non-Newtonian Fluid Mech **79**(2-3) 469-501 (Nov 1998), 4A986

Understanding thixotropic and antithixotropic behavior of viscoelastic micellar solutions and liquid crystalline dispersions - I: The model, J Non-Newtonian Fluid Mech **80**(2-3) 93-113 (Jan 1999), 5A452
Investigation of interfacial instabilities in the superposed channel flow of viscoelastic fluids, J Non-Newtonian Fluid Mech **81**(1-2) 27-69 (Feb 1999), 6A538
Nonlinear viscoelasticity of cheese, Biorheol **35**(3) 171-191 (May-Jun 1998), 6A539
Prediction of the large-strain mechanical response of heterogeneous polymer systems: Local and global deformation behavior of a representative volume element of voided polycarbonate, J Mech Phys Solids **47**(2) 201-221 (Feb 1999), 7A5
Biaxial yield for nonlinearly viscoelastic materials with a strain clock, Mech Time-Dependent Mat **2**(1) 37-58 (1998), 7A489
Linear stability and dynamics of viscoelastic flows using time-dependent numerical simulations, J Non-Newtonian Fluid Mech **82**(1) 57-104 (Apr 1999), 7A490
High strain compressions of closed-cell polymer foams, J Mech Phys Solids **47**(3) 669-695 (Mar 1999), 8A12
Cavitation, post-cavitation and yield in amorphous polymer-rubber blends, J Mech Phys Solids **47**(4) 843-876 (Apr 1999), 8A535
Estimation of traction properties based on a nonlinear viscoelastic model, J Trib **121**(2) 286-293 (Apr 1999), 8A536
Stability of viscoelastic shear flows subjected to steady or oscillatory transverse flow, J Fluid Mech **379** 255-277 (Jan 1999), 8A1163
Alternate models for a transversely isotropic plastic viscoelastic fluid, J Non-Newtonian Fluid Mech **83**(1-2) 19-32 (Jun 1999), 10A541
Model for nonlinear viscoelastic axial response of an elastomeric bushing, Int J Non-Linear Mech **34**(5) 779-793 (Sep 1999), 10A542
Nonlinear viscoelastic constitutive model of solid propellant, Int J Solids Struct **36**(25) 3755-3777 (Sep 1999), 10A543
Extension of dissipative particle dynamics for viscoelastic flow modeling, J Non-Newtonian Fluid Mech **83**(3) 231-248 (Jul 1999), 11A476
Estimation of the internal energy dissipated inside materials with viscous rheological nonlinear behavior subjected to harmonic inertial disturbing force, Appl Mech Eng **4**(S) 399-406 (1999), 11T478
Gas-assisted displacement of viscoelastic fluids: Flow dynamics at the bubble front, J Non-Newtonian Fluid Mech **83**(3) 183-203 (Jul 1999), 11A1185
Deformation of a viscoelastic drop subjected to steady uniaxial extensional flow of a Newtonian fluid, J Non-Newtonian Fluid Mech **85**(2-3) 127-163 (Aug 1999), 12A585
First-order model for bubble dynamics in a compressible viscoelastic liquid, J Non-Newtonian Fluid Mech **84**(1) 83-103 (Jul 1999), 12A586
Iterated stretching of viscoelastic jets, Phys Fluids **11**(7) 1717-1737 (Jul 1999), 12A587
Parametrically driven surface waves in viscoelastic liquids, Phys Fluids **11**(8) 1970-1981 (Aug 1999), 12T588
Prediction of nonlinear viscoelastic response of unidirectional fiber composites, Composites Sci Tech **59**(9) 1311-1319 (Jul 1999), 12A589
Thermoviscoelastic simulation of thermally and pressure-induced stresses in injection molding for the prediction of shrinkage and warpage for fiber-reinforced thermoplastics, J Non-Newtonian Fluid Mech **84**(2-3) 159-190 (Aug 1999), 12A592
Modeling the viscoelastic response of polymers in the vicinity of the glass transition point, Comput Model Simul in Eng **4**(2) 150-161 (May 1999), 12A593
Maxwell fluid suction flow in a channel, J Non-Newtonian Fluid Mech **85**(2-3) 165-187 (Aug 1999), 12A1152
Effect of wall slip on the stability of viscoelastic plane shear flow, Phys Fluids **11**(7) 1749-1756 (Jul 1999), 12T1176

252F. Creep

Creep of tubular test pieces in a complex state of stress, Int J Pressure Vessels Piping **75**(1) 63-66 (Jan 1998), 1A555
Steady-state creep in an inclusion bearing material by plastic accommodation, Acta Mat **46**(12) 4153-4159 (Jul 1998), 1A556
Creep contributes to the fatigue behavior of bovine trabecular bone, J Biomech Eng **120**(5) 647-654 (Oct 1998), 1A1481
Combination tests on TiAl involving constant strain-rate deformation, annealing and creep, Acta Mat **46**(13) 4507-4517 (Aug 1998), 2A617
Creep of polymer-cement concrete at normal and elevated temperatures, J Mech Behavior Mat **9**(2) 147-161 (1998), 2T618
Creep or relaxation master curves calculated from experimental dynamic viscoelastic function, Sci Eng Comp Mat **7**(3) 259-267 (1998), 2A619
Finite element analysis of creep using Theta projection data, Int J Pressure Vessels Piping **75**(5) 437-442 (Apr 1998), 2A620
Yield stress of fine grained materials, Acta Mat **46**(13) 4527-4534 (Aug 1998), 2A647
Comparison of cross-weld creep testing and service welds, Int J Pressure Vessels Piping **75**(5) 429-432 (Apr 1998), 2A1044
Time-dependent creep of a dual-phase viscoplastic material with lamellar structure, Int J Plasticity **14**(8) 755-770 (1998), 3A507
Approximate and computationally efficient algorithm for computing reference stress for creep life assessment, Int J Pressure Vessels Piping **75**(6) 459-465 (May 1998), 3A767
Design of Structures Considering Creep (Balkema, Rotterdam, Netherlands, 1997) 4N14
Study on compressive creep in concrete at early age (Japanese), Proc JSCE **599**(V-40) 1-14 (Aug 1998), 4T534
Creep and stress relaxation of geotextile-reinforced soils, Geosynthetics Int **5**(4) 425-434 (1998), 4A704
Time Effects in Rock Mechanics (Wiley, UK, 1998) 5R16
Application of stress relaxation testing in metallurgical life assessment evaluations of GTD111 alloy turbine buckets, J Eng Gas Turbines Power **121**(1) 129-137 (Jan 1999), 5A448
Creep of welded pipes, Proc Inst Mech Eng E **212**(E3) 171-182 (1998), 5A449
Effect of the type of creep constitutive equation on strain and stress distributions of notched cylindrical bars under tension creep, J Strain Anal Eng Des **33**(5) 347-356 (Sep 1998), 5A450
Microstructural constraints for creep in SiC-whisker-reinforced Al$_2$O$_3$, Acta Mat **46**(18) 6361-6373 (Nov 1998), 5A451
SiC particle reinforced oxynitride glass: Stress relaxation, creep and strain-rate imposed experiments, Acta Mat **46**(17) 6115-6130 (Nov 1998), 5A495
Flat end to cylindrical shell connection: Limit load and creep design, Int J Pressure Vessels Piping **75**(10) 715-726 (Aug 1998), 5A548
Modeling of the fuel mechanical behavior: From creep laws to internal variable models, Nucl Eng Des **185**(2-3) 221-228 (Oct 1998), 5A1509
Creep behavior of interfaces in fiber reinforced metal-matrix composites, Acta Mat **47**(1) 149-164 (Dec 1998), 6A540
Empirical relation between strain energy and time in creep deformation, Int J Pressure Vessels Piping **75**(13) 939-943 (Nov 1998), 6A541
Modeling of secondary creep behavior for anisotropic materials with different properties in tension and compression, Int J Plasticity **14**(10-11) 1059-1083 (1998), 6A542
Viscoelastic response of composite overwrapped cylinders, J Thermoplastic Composite Mat **12**(1) 55-69 (Jan 1999), 6A543
Problems of prediction of long-term fracture under creep (Russian), Prikl Mekh (Appl Mech) **34**(10) 32-41 (1998), 6A902
Orientation-dependent creep behavior and microstructure of nickel solid solution single crystals, Acta Mat **47**(2) 397-406 (Jan 1999), 7A491
PhYsical aging and shear creep of poly(carbonate), Mech Time-Dependent Mat **2**(1) 13-36 (1998), 7A492
Creep of geosynthetic reinforced soil retaining walls, Geotextiles Geomembranes **17**(1) 51-65 (Feb 1999), 7A643
Material model describing the orientation dependent creep behavior of single crystals based on dislocation densities of slip systems, Int J Plasticity **15**(3) 285-298 (1999), 9A588
Modification of the jogged-screw model for creep of γ-TiAl, Acta Mat **47**(5) 1399-1411 (Mar 1999), 9A589
Primary creep of a near γ-TiAl intermetallic, High Temp Mat Proc **18**(3) 173-184 (Feb 1999), 9A590
Neural network approach to elevated temperature creep-fatigue life prediction, Int J Fatigue **21**(3) 225-234 (Mar 1999), 9A835
Creep behavior of long range ordered Cu50Zn alloy, Acta Mat **47**(6) 1831-1843 (Apr 1999), 10A544
Creep of SiC-Ti-1100 composite in a vacuum environment, Acta Mat **47**(6) 1723-1734 (Apr 1999), 10A545
Creep/creep-recovery response of fibredux 920C-TS-5-42 composite under flexural loading, Adv Composites Letters **8**(1) 71-86 (1999), 10A546
Modeling the creep of open-cell polymer foams, J Mech Phys Solids **47**(7) 1437-1457 (Jul 1999), 10A547
Residual stresses in short-fiber reinforced injection-molded thermoplastic parts, Mech Time-Dependent Mat **2**(2) 129-169 (1998), 10A633
Prestrain effects on creep ductility of a 316 stainless steel light forging, Int J Pressure Vessels Piping **76**(6) 355-359 (May 1999), 10A856
Study on creep behavior in the unloading process for early aged concrete (Japanese), Proc JSCE **613**(V-42) 165-174 (Feb 1999), 10T858
Study on the prediction model of tensile creep strain of concrete based on micro pore behavior (Japanese), Proc JSCE **613**(V-42) 121-135 (Feb 1999), 10A859
Effect of Si$_3$N$_4$ whiskers on the high-temperature creep behavior of an Al-Fe-V-Si alloy matrix composite, Composites Sci Tech **59**(5) 769-773 (Apr 1999), 10A1395
High-temperature creep behavior of 2124 aluminium alloys with and without particulate and SiC-whisker reinforcement, Composites Sci Tech **59**(5) 737-747 (Apr 1999), 10A1396
600°C creep analysis of metals using the Moire interferometry method, J Mat Processing Tech **88**(1-3) 185-189 (Apr 1999), 11A479
High-temperature creep behavior of powder-metallurgy aluminium composites reinforced with SiC particles of various sizes, Composites Sci Tech **59**(7) 1117-1125 (May-Jun 1999), 11A480
Phenomenological creep theory including nonclassical effects and creep-damage coupling, Appl Mech Eng **4**(S) 11-16 (1999), 11A481
Procedure for correction of creep in foam rubber optical pressure measurement techniques, Exp Mech **39**(2) 125-131 (Jun 1999), 11A482
Studies on the creep behavior of the structural material 316 L (N) in the low-stress range at 550°C and 600°C, Nucl Eng Des **188**(3) 381-384 (May 1999), 11A483
Extrapolation of creep strain data for pure copper, J Test Eval **27**(1) 31-35 (Jan 1999), 12A590
Creep of carbon-polypropylene model composites: A Raman spectroscopic investigation, Composites Sci Tech **59**(9) 1375-1385 (Jul 1999), 12A613
Software for the assessment and application of creep and rupture data, Nucl Eng Des **190**(3) 273-285 (Jun 1999), 12A801
Statistical modeling of creep rupture data, J Eng Mat Tech **121**(3) 264-271 (Jul 1999), 12A806

252G. Stress relaxation

Kinetics of stress relaxation caused by the combination of interfacial sliding and diffusion: Two-dimensional analysis, Acta Mat **46**(11) 3821-3828 (Jul 1998), 1A557
Low temperature stress growth and relaxation in crack sealing materials, Mat Struct **31**(212) 551-554 (Oct 1998), 3A508
Sampling localization and duality algorithms in practice, J Non-Newtonian Fluid Mech **79**(2-3) 235-253 (Nov 1998), 4A535
Extensional deformation, stress relaxation and necking failure to viscoelastic filaments, J Non-Newtonian Fluid Mech **79**(2-3) 469-501 (Nov 1998), 4A986
Stress relaxation in superalloys due to microstructural changes, Mech Time-Dependent Mat **2**(1) 1-12 (1998), 7A493
Stress relaxation in broken fibers in unidirectional composites - Modeling and application to creep rupture analysis, Int J Plasticity **15**(2) 167-189 (1999), 9A591
Natural convection of a viscoelastic fluid with deformable free surface, J Non-Newtonian Fluid Mech **85**(2-3) 257-271 (Aug 1999), 12A591

252H. Contact problems, inclusions, and other mechanisms

Effects of strain hardening and strain-rate sensitivity on the penetration of aluminum targets with spherical-nosed rods, Int J Solids Struct **35**(28-29) 3737-3753 (Oct 1998), 1A242
New principle in contact mechanics, J Trib **120**(4) 677-684 (Oct 1998), 2A621
Contact characteristics of viscoelastic bonded layers, Appl Math Model **22**(8) 569-581 (Aug 1998), 3A509
Finite element solution of the problem of a spherical inhomogeneity in an infinite power-law viscous matrix, Eur J Mech A **17**(5) 725-740 (1998), 4A536
Study on characterization of compressive and tensile creep behavior for early aged concrete (Japanese), Proc JSCE **599**(V-40) 105-117 (Aug 1998), 4A537
Thermoviscoelasticity: Continuum-molecular connections, J Non-Newtonian Fluid Mech **79**(2-3) 255-259 (Nov 1998), 4A538
Evolution of elliptical voids in power-law viscous solids, Mech Mat **31**(1) 9-28 (Jan 1999), 6A544
Quasistatic viscoelastic contact with normal compliance and friction, J Elast **51**(2) 105-126 (1998), 6A545
Quasistatic contact problem with slip-dependent coefficient of friction, Math Methods Appl Sci **22**(3) 267-284 (Feb 1999), 7A494
Estimation of traction properties based on a nonlinear viscoelastic model, J Trib **121**(2) 286-293 (Apr 1999), 8A536
First-order model for bubble dynamics in a compressible viscoelastic liquid, J Non-Newtonian Fluid Mech **84**(1) 83-103 (Jul 1999), 12A586
Thermoviscoelastic simulation of thermally and pressure-induced stresses in injection molding for the prediction of shrinkage and warpage for fiber-reinforced thermoplastics, J Non-Newtonian Fluid Mech **84**(2-3) 159-190 (Aug 1999), 12A592

252I. Material characterization

Viscoelastic properties of textile yarns: Research problems, Fibres Textiles in E Europe **6**(1) 36-38 (Jan-Mar 1998), 2A622
Time-dependent behavior and viscoelastic constitutive modeling of an epoxy polymer, Polymers and Polymer Composites **6**(2) 75-83 (1998), 3A510
Viscoelastic sphere model for the representation of plantar soft tissue during simulations, J Biomech **31**(9) 847-853 (Sep 1998), 4A10
Algebraic extra-stress models for the simulation of viscoelastic flows, J Non-Newtonian Fluid Mech **79**(2-3) 261-281 (Nov 1998), 4A527
Maximum dissipation evolution equations for nonlinear thermoviscoelasticity, Int J Non-Linear Mech **34**(2) 361-385 (Mar 1999), 4A530
Understanding thixotropic and antithixotropic behavior of viscoelastic micellar solutions and liquid crystalline dispersions - I: The model, J Non-Newtonian Fluid Mech **80**(2-3) 93-113 (Jan 1999), 5A452
Shape fixity and shape recovery in a film of shape memory polymer of polyurethane series, J Intelligent Mat Syst Struct **9**(2) 127-136 (Feb 1998), 6A1031
Criterion of static strength for polyester glass-fiber plastic binder in triaxial stress state, J Mech Behavior Mat **9**(4) 291-295 (1998), 7T495
Alternate models for a transversely isotropic plastic viscoelastic fluid, J Non-Newtonian Fluid Mech **83**(1-2) 19-32 (Jun 1999), 10A541
Mechanically induced crystallization of polymers, Int J Non-Linear Mech **34**(5) 807-821 (Sep 1999), 10A548
Time-dependent and flow properties of foams, Mech Time-Dependent Mat **2**(2) 171-193 (1998), 10A1095
Modeling the viscoelastic response of polymers in the vicinity of the glass transition point, Comput Model Simul in Eng **4**(2) 150-161 (May 1999), 12A593
Thermoplastic polyurethane-fumed silica composites: Influence of the specific surface area of fumed silica on the viscoelastic and adhesion properties, J Adhesion Sci Tech **13**(6) 695-711 (1999), 12A594

252Y. Computational techniques

Computation of homogenized coefficients for a viscoelastic composite reinforced with spherical inclusions, J Composite Mat **32**(14) 1297-1310 (1998), 1A558
Dynamic solutions of nonuniform extensional motions as applied to instability of fiber-forming processes, Arch Mech **50**(1) 41-52 (1998), 1A559
Process induced stresses of a flip-chip packaging by sequential processing modeling technique, J Electron Packaging **120**(3) 309-313 (Sep 1998), 1A560
Second-order hybrid FE-volume method for viscoelastic flows, J Non-Newtonian Fluid Mech **79**(2-3) 405-431 (Nov 1998), 4A30
Boundary element analysis of 3D mixing flow of Newtonian and viscoelastic fluids, Int J Numer Methods Fluids **28**(5) 815-840 (Oct 1998), 4A56
Lagrangian particle method for macroscopic and micro-macro viscoelastic flow computations, J Non-Newtonian Fluid Mech **79**(2-3) 387-403 (Nov 1998), 4A539
Mixed FEMs for viscoelastic flow analysis: A review, J Non-Newtonian Fluid Mech **79**(2-3) 361-385 (Nov 1998), 4A540
A Posteriori error estimates for spectral element solutions to viscoelastic flow problems, Comput Methods Appl Mech Eng **164**(3-4) 375-395 (Oct 1998), 4A541
Boundary element analysis of planar drop deformation in confined flow - Part II: Viscoelastic fluids, Eng Anal Boundary Elements **22**(4) 291-306 (Dec 1998), 5A453
Semi-analytical resolution of a generalized unidirectional self-consistent model: Theoretical bases and experiment in viscoelasticity, J Composite Mat **32**(23) 2084-2119 (1998), 5A508
Forced vibration responses of a viscoelastic structure, J Sound Vib **218**(5) 892-907 (Dec 1998), 6T125
Efficient viscoelastic formulation for steady-state rolling structures, Comput Mech **22**(5) 395-403 (Dec 1998), 6A546
Numerical integration for a creeping material, Comput Geotech **23**(3) 183-192 (1998), 6A547
Transient response analysis of structures made from viscoelastic materials, Int J Numer Methods Eng **44**(3) 393-403 (Jan 1999), 6A548
Methods of interconversion between linear viscoelastic material functions - Part I: A numerical method based on Prony series, Int J Solids Struct **36**(11) 1653-1675 (Apr 1999), 7A486
Methods of interconversion between linear viscoelastic material functions - Part II: An approximate

analytical method, Int J Solids Struct **36**(11) 1677-1699 (Apr 1999), 7A487

Anomalous stability behavior of a properly invariant constitutive equation which generalizes fractional derivative models, Int J Eng Sci **37**(3) 315-329 (Feb 1999), 7A496

Thermoviscoelastic analysis of composite structures using a triangular flat shell element, AIAA J **37**(2) 238-247 (Feb 1999), 8A42

Report on the IUTAM symposium on viscoelastic fluid mechanics: Effects of molecular modeling, J Non-Newtonian Fluid Mech **82**(2-3) 135-452 (May 1999), 8A534

Method of solution of boundary value problems of the linear theory of viscoelasticity (Russian), Prikl Mekh (Appl Mech) **34**(12) 77-85 (1998), 10A540

Optimization methods for solving nonlinear equations in viscoelastic flow problems, Eng Optim **31**(4) 405-434 (Mar 1999), 10A549

Time-dependent FEM for the simulation of 3D viscoelastic flow with integral models, J Non-Newtonian Fluid Mech **84**(2-3) 217-232 (Aug 1999), 12A41

Galerkin and least-square FEMs for steady viscoelastic flows, J Non-Newtonian Fluid Mech **84**(2-3) 233-256 (Aug 1999), 12A72

Variational principle of perturbed motion on viscoelastic thin plates with applications, Acta Mech Solida Sinica **12**(2) 121-128 (Jun 1999), 12A595

Dynamical properties of a viscoelastic cylindrical shell, Appl Math Mech **20**(3) 233-240 (Mar 1999), 12A679

252Z. Experimental techniques

Applications of digital speckle correlation to microscopic strain measurement and materials' property characterization, J Electron Packaging **120**(3) 275-279 (Sep 1998), 1A527

Experimental methods for considering dispersion and attenuation in a viscoelastic Hopkinson bar, Exp Mech **38**(4) 242-249 (Dec 1998), 5A187

Application of stress relaxation testing in metallurgical life assessment evaluations of GTD111 alloy turbine buckets, J Eng Gas Turbines Power **121**(1) 129-137 (Jan 1999), 5A448

Report on the IUTAM symposium on viscoelastic fluid mechanics: Effects of molecular modeling, J Non-Newtonian Fluid Mech **82**(2-3) 135-452 (May 1999), 8A534

Concentration effect on the rheology of polychloroprene-piperylene-styrene copolymer solutions, Appl Mech Eng **4**(S) 221-226 (1999), 11T484

254. PLASTICITY AND VISCOPLASTICITY

254A. General theory

Plastic Limit Analysis of Plates, Shells, and Disks, Second Edition (Elsevier Sci BV, Netherlands, 1997) 1R12

Aspects of non-associated single crystal plasticity: Influence of non-Schmid effects and localization analysis, Int J Solids Struct **35**(33) 4437-4456 (Nov 1998), 1A561

Constitutive frame of elastoplasticity at large strains based on the notion of a plastic metric, Int J Solids Struct **35**(30) 3859-3897 (Oct 1998), 1A562

Nonlocal rate-dependent plasticity, Int J Plasticity **14**(6) 551-575 (1998), 1A563

Plastic propagation of band-waves in solids, Arch Mech **50**(1) 91-112 (1998), 1A564

Localization and Fracture Phenomena in Inelastic Solids (Springer-Verlag, Wien, 1998) 2N13

Postulate of local dimension of the process image and determining relations in the plasticity theory (Russian), Prikl Mekh (Appl Mech) **34**(5) 86-97 (1998), 2A623

Probabilistic analysis of the Stussi-Kollbrunner paradox, Heron **42**(3) 169-180 (1997), 2A624

Autofrettage of thick cylinders, Int J Pressure Vessels Piping **75**(6) 443-446 (May 1998), 3A511

Cavitation instabilities in plastics and rubber-modified plastics, Int J Fracture **88**(1) 61-86 (1997), 3A512

Crystal plasticity: Micro-shear banding in polycrystals using Voronoi tessellation, Int J Plasticity **14**(8) 771-788 (1998), 3A513

Diffusion potential and well-posedness in non-associative plasticity, Int J Solids Struct **35**(36) 5173-5188 (Dec 1998), 3A514

Mechanics of porous polycrystals: A fully anisotropic flow potential, Int J Plasticity **14**(8) 829-839 (1998), 3A515

Statistical continuum theory for inelastic behavior of a two-phase medium, Int J Plasticity **14**(8) 719-731 (1998), 3A516

Size effects in materials due to microstructural and dimensional constraints: A comparative review, Acta Mat **46**(16) 5611-5626 (Oct 1998), 4A518

Ad hoc exact solutions for the stress and velocity fields in rigid perfectly plastic materials under plane-stress conditions, Int J Non-Linear Mech **34**(1) 71-84 (Jan 1999), 4A542

Internal symmetry in bilinear elastoplasticity, Int J Non-Linear Mech **34**(2) 279-288 (Mar 1999), 4A543

Thermodynamics-based formulation of gradient-dependent plasticity, Eur J Mech A **17**(5) 741-761 (1998), 4A544

Effect of triaxial state of stress on ductility using nonlinear CDM model, J Composite Mat **32**(21) 359-371 (1998), 4A807

Viscoelastic Structures: Mechanics of Growth and Aging (Academic, San Diego, CA, 1998) 5R17

Dynamic behavior of polycrystalline tantalum, Int J Plasticity **14**(9) 871-890 (1998), 5A454

Mohr-Coulomb failure criterion expressed in terms of stress invariants, J Appl Mech **65**(4) 1066-1068 (Dec 1998), 5A455

Another important generalization of the unified strength theory (Chinese), J Xi'an Jiaotong Univ **32**(12) 108-110 (1998), 6T549

Comparison of viscoplasticity formats and algorithms, Mech Cohesive-Frictional Mat **4**(1) 75-98 (Jan 1999), 6A550

Determinative equations for thermoviscoplasticity describing the processes of orthotropic body element deformation in the small-curvatureréu trajectory (Russian), Prikl Mekh (Appl Mech) **34**(10) 128-135 (1998), 6A551

Dissipative driving force in ductile crystals and the strain localization phenomenon, Int J Plasticity **14**(10-11) 1109-1131 (1998), 6A552

Mathematical theory of plasticity for compressible P-M materials, J Mat Processing Tech **86**(1-3) 159-162 (Feb 1999), 6A553

Mechanics of the inelastic behavior of materials - Part 1: Theoretical underpinnings, Int J Plasticity **14**(10-11) 945-967 (1998), 6A554

Mechanics of the inelastic behavior of materials - Part II: Inelastic response, Int J Plasticity **14**(10-11) 969-995 (1998), 6A555

Nonclassical constitutive model for crystal plasticity and its application, Appl Math Mech **19**(10) 971-982 (Oct 1998), 6A556

Study on the generalized Prandtl-Reuss constitutive equation and the corotational rates of stress tensor, Appl Math Mech **19**(8) 735-743 (Aug 1998), 6A557

View on ductile-fracture modeling, Fatigue Fracture Eng Mat Struct **21**(9) 1105-1122 (1998), 6A919

Endochronic model for temperature sensitive materials, Int J Plasticity **14**(10-11) 997-1012 (1998), 6A1395

Recent Advances in Solids and Structures - 1998 (ASME, New York, 1998) 7N22

Conversion of plastic work to heat during high strain rate deformation of glassy polymers, Mech Mat **31**(2) 131-139 (Feb 1999), 7A497

Elastic-plastic behavior of a shallow two bar truss, Int J Mech Sci **41**(6) 663-675 (Jun 1999), 7A498

Research at the Korea Institute of Machinery and Materials and Center for Advanced Aerospace Materials, Adv Performance Mat **5**(4) 265-361 (Dec 1998), 7A499

Strain gradient crystal plasticity: Size-dependent deformation of bicrystals, J Mech Phys Solids **47**(2) 297-324 (Feb 1999), 7A500

Thermodynamical theory of plastic spin and internal stress with dislocation density tensor, J Eng Mat Tech **121**(2) 247-253 (Apr 1999), 8A8

Atomistic simulations for multiscale modeling in bcc metals, J Eng Mat Tech **121**(2) 120-125 (Apr 1999), 8A537

Maximum reduced dissipation principle for nonassociative plasticity, Rendiconti Lincei Matematica e Appl **IX**(2) 115-129 (1998), 8A538

Reappraisal of nonlocal mechanics, Eur J Mech A **18**(1) 17-46 (Jan-Feb 1999), 8A539

Stability of dislocation short-range reactions in BCC crystals, J Eng Mat Tech **121**(2) 143-150 (Apr 1999), 8A540

Yield strength asymmetry predictions from polycrystal elastoplasticity, J Eng Mat Tech **121**(2) 230-239 (Apr 1999), 8A541

Viscoplastic compaction of composite powders, J Mech Phys Solids **47**(4) 785-815 (Apr 1999), 8A574

Self-consistent analysis for coupled elastoplastic damage problems, Appl Math Mech **19**(12) 1217-1226 (Dec 1998), 8A764

Plasticity: Mathematical Theory and Numerical Analysis (Springer-Verlag, New York, 1999) 9R23

Monotone plastic constitutive equations with polynomial growth condition, Math Methods Appl Sci **22**(7) 547-562 (May 1999), 9A2

General elastoplastic FE formulation based on incremental deformation theory for planar anisotropy and its application to sheet metal forming, Int J Plasticity **15**(1) 35-67 (1999), 9A592

Modeling the deformation behavior of a Sn-Pb solder alloy using the simplified viscoplasticity theory based on overstress, J Electron Packaging **121**(2) 92-98 (Jun 1999), 9A593

Solvability of boundary value problems in elastoplasticity, Control and Cybernetics **27**(2) 311-330 (1998), 9A594

Strong discontinuities and continuum plasticity models: The strong discontinuity approach, Int J Plasticity **15**(3) 319-351 (1999), 9A595

Non-local continuum model and its numerical simulation for localization problem, Acta Mech Solida Sinica **12**(1) 51-62 (1999), 9A875

Formulation of coupled thermoplastic problems with phase-change, Int J Plasticity **15**(1) 1-34 (1999), 9A1417

Thermomechanical behavior of shape memory alloy under complex loading conditions, Int J Plasticity **15**(2) 223-239 (1999), 9A1420

Distributed dislocation method applied to the analysis of elastoplastic strain concentrations, J Mech Phys Solids **47**(5) 1007-1026 (May 1999), 10A550

Finite deformation plasticity in principal axes: From a manifold to the Euclidean setting, Comput Methods Appl Mech Eng **171**(3-4) 341-369 (Apr 1999), 10A551

Mechanism-based strain gradient plasticity - I: Theory, J Mech Phys Solids **47**(6) 1239-1263 (Jun 1999), 10A552

Plastic yielding as a phase transition, J Appl Mech **66**(2) 289-297 (Jun 1999), 10A553

Self-consistent estimates for the rate-dependent elastoplastic behavior of polycrystalline materials, J Mech Phys Solids **47**(7) 1543-1568 (Jul 1999), 10A554

Study of one class of processes of material complex loading outside the elasticity limits in 3D trajectories (Russian), Prikl Mekh (Appl Mech) **34**(12) 16-25 (1998), 10A555

Unified characteristic theory for plastic plane stress problems (Chinese), J Xi'an Jiaotong Univ **33**(4) 1-4 (1999), 10A556

Tangent modulus tensor in plasticity under finite strain, Acta Mech **134**(3-4) 199-215 (1999), 10A563

Unified plastic limit analysis of circular plates under arbitrary load, J Appl Mech **66**(2) 568-570 (Jun 1999), 10T679

Fracture modeling of WC-Co hardmetals using crystal plasticity theory and the Gurson model, Fatigue Fracture Eng Mat Struct **22**(1) 77-86 (1999), 10A897

Constitutive model for ferroelectric polycrystals, J Mech Phys Solids **47**(8) 1663-1697 (Aug 1999), 11A9

Toward a complete second-order evolution law, Math Mech Solids **4**(2) 251-266 (Jun 1999), 11A485

Solutions to plastic plane stress problems (Chinese), J Xi'an Jiaotong Univ **33**(6) 60-63 (1999), 12A596

254C. Nonlinear and finite deformation problems

Equivalence of Storen-Rice's method with Hill's for the analysis of localized necking (Japanese), J Soc Mat Sci Japan **47**(6) 587-592 (Jun 1998), 1A565

High strain rate superplasticity in metal matrix composites: The role of load transfer, Acta Mat **46**(11) 3937-3948 (Jul 1998), 1A566

One-dimensional localization studied with a second grade model, Eur J Mech A **17**(4) 637-656 (1998), 1A567

Study of strain localization in a multiple scale framework: The 1D problem, Comput Methods Appl Mech Eng **159**(3-4) 193-222 (Jul 1998), 1A568

Prediction of surface crack during cylindrical upsetting of porous materials by FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 14-17 (May 1998), 1A903

Thermodynamic formulation of finite-deformation elastoplasticity with hardening based on the concept of material isomorphism, Int J Plasticity **14**(6) 473-488 (1998), 1A1368

Nonlinear viscoelastic analysis of composite plates and shells, Composite Struct **41**(3-4) 265-272 (Mar-Apr 1998), 3A517

Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part I: Material considerations, Composite Struct **42**(1) 33-41 (May 1998), 3A518

Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part II: Structural analysis, Composite Struct **42**(1) 43-51 (May 1998), 3A519

Australian developments in the analysis of composite structures with material and geometric nonlinearities, Composite Struct **41**(3-4) 197-214 (Mar-Apr 1998), 3A575

Design and simulation of a sequential kinking guardrail terminal, Int J Impact Eng **21**(9) 761-772 (Oct 1998), 4A19

Finite element simulation for dynamic large elasto-plastic deformation in metal powder forming, Finite Elements Anal Des **30**(4) 335-352 (Oct 1998), 4A34

Experimental quasi-static axial crushing of top-hat and double-hat thin-walled sections, Int J Mech Sci **41**(2) 179-208 (Feb 1999), 4A545

Initiation of plastic localization in powder-based materials, Eur J Mech A **17**(5) 807-818 (1998), 4A546

Macroscopic effects of micro-shear banding in plasticity of metals, Acta Mech **131**(3-4) 203-224 (1998), 4A547

Nonlinear analysis and plastic deformation of pipe elbows subjected to in-plane bending, Int J Pressure Vessels Piping **75**(8) 603-611 (Jul 1998), 4A548

Nonlinear multivariable flight control of aircraft, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 137-144 (1998), 4A549

Theoretical analysis for the quasi-static axial crushing of top-hat and double-hat thin-walled sections, Int J Mech Sci **41**(2) 209-233 (Feb 1999), 4A550

Three-dimensional model for solids undergoing stress-induced phase transformations, Eur J Mech A **17**(5) 789-806 (1998), 4A551

Viscoelastic Structures: Mechanics of Growth and Aging (Academic, San Diego, CA, 1998) 5R17

Degradation and collapse of square tubes under cyclic bending, Thin-Walled Struct **31**(4) 325-341 (Aug 1998), 5A456

Strain rate sensitivity of flow stress at large strains, Acta Mat **46**(18) 6375-6380 (Nov 1998), 5A457

Simulation of viscoelastic fluids: Couette-Taylor flow, J Comput Phys **147**(1) 22-59 (Nov 1998), 5A960

Finite element simulation of the test procedure of stiffened panels, Marine Struct **11**(3) 75-99 (Apr 1998), 6A19

Algorithm based on total-elastic and incremental-plastic strain for large deformation plasticity, J Mat Processing Tech **86**(1-3) 190-199 (Feb 1999), 6A558

Computational method on process optimal control for finite deformation problems, Acta Mech Solida Sinica **11**(4) 307-317 (1998), 6A559

Deformation modeling of superplastic AA-5083, Int J Plasticity **14**(10-11) 1133-1154 (1998), 6A560

Finite elastic-plastic deformation behavior of crystalline solids based on a non-associated macroscopic flow rule, Int J Plasticity **14**(12) 1189-1208 (1998), 6A561

Finite-strain Cam-clay model in the framework of multiplicative elasto-plasticity, Int J Plasticity **14**(12) 1155-1187 (1998), 6A734

Unified slip line solution of the wedge's ultimate load and its application in geotechnical engineering (Chinese), J Xi'an Jiaotong Univ **32**(12) 59-62 (1998), 6A736

Biaxial yield for nonlinearly viscoelastic materials with a strain clock, Mech Time-Dependent Mat **2**(1) 37-58 (1998), 7A489

Axial crushing analysis of tubes deforming in the multi-lobe mode, Int J Mech Sci **41**(7) 865-890 (Jul 1999), 7A501

Constitutive model in finite viscoelastoplasticity of rubbery polymers, Mech Res Commun **26**(1) 39-44 (Jan-Feb 1999), 7T502

Method for calculating the stress-strain state in the general boundary-value problem of metal forming - Part 1, Int J Solids Struct **36**(9) 1253-1262 (Mar 1999), 7A503

Method for calculating the stress-strain state in the general boundary value problem of metal forming - Part 2: Impact of a bar against a rigid obstacle, Int J Solids Struct **36**(9) 1263-1275 (Mar 1999), 7A504

Static crushing of square aluminium extrusions with aluminium foam filler, Int J Mech Sci **41**(8) 967-993 (Aug 1999), 7A505

Effects of welding distortions and residual stresses on the ultimate strength of long rectangular plates under uniaxial compression, Marine Struct **11**(6) 251-269 (Jul 1998), 7A564

Ultimate strength estimation of ships' transverse frames by incremental elastic-plastic FE analysis, Marine Struct **11**(7-8) 291-317 (Aug-Sep 1998), 8A24

Atomistic finite deformation simulations: A discussion on length scale effects in relation to mechanical stresses, J Eng Mat Tech **121**(2) 114-119 (Apr 1999), 8A542

Calculation of the deep bending collapse response for complex thin-walled columns - I: Pre-collapse and collapse phases, Thin-Walled Struct **33**(3) 155-176 (Mar 1999), 8A543

Calculation of the deep bending collapse response for complex thin-walled columns - II: Post-collapse phase, Thin-Walled Struct **33**(3) 177-210 (Mar 1999), 8A544

Surface bifurcation in anisotropic materials with application to aluminum alloys, J Appl Mech **66**(1) 62-68 (Mar 1999), 8A557

Plastic deformation and instability in thin-walled tubes under combined loading: A general theory - Part II, J Mech Phys Solids **47**(4) 921-933 (Apr 1999), 8A661

Alternative approach to finite plasticity based on material isomorphisms, Int J Plasticity **15**(3) 353-374 (1999), 9A596

Constitutive model of plasticity in finite deformation, Int J Plasticity **15**(3) 299-317 (1999), 9A597

Exact analytical solution to a rigid-plastic problem with hardening and damage evolution, Comptes Rendus L'Acad Sci Serie II **327**(2-3) 193-199 (Feb-Mar 1999), 9A598

Laminar flow of a nonlinear viscoplastic fluid through an axisymmetric sudden expansion, J Fluids Eng **121**(2) 488-495 (Jun 1999), 9A599

Periodic solutions of nonlinear kinematic hardening models, Math Methods Appl Sci **22**(6) 515-529 (Apr 1999), 9A614

Elastic-plastic failure analysis of pressure burst tests of thin toroidal shells, J Pressure Vessel Tech **121**(2) 149-153 (May 1999), 9A1019
Accommodation helper mechanism for superplasticity in metal matrix composites, Acta Mat **47**(6) 1915-1922 (Apr 1999), 10A557
Anisothermal modeling applied to brake discs, Int J Non-Linear Mech **34**(5) 795-805 (Sep 1999), 10A558
Application of nonlinear gauge method to the analysis of local finite deformation in the necking of cylindrical bar, Appl Math Mech **20**(2) 119-127 (Feb 1999), 10A559
Deformation, temperature, and strain rate sequence experiments on OFHC Cu, Int J Plasticity **15**(4) 375-399 (1999), 10A560
Dynamic plastic behavior of circular plate using unified yield criterion, Int J Solids Struct **36**(22) 3257-3275 (Aug 1999), 10A561
Self-consistent Eulerian rate type elasto-plasticity models based upon the logarithmic stress rate, Int J Plasticity **15**(5) 479-520 (1999), 10A562
Tangent modulus tensor in plasticity under finite strain, Acta Mech **134**(3-4) 199-215 (1999), 10A563
Theory of the elastic-viscoplastic Cosserat continuum, Arch Mech **50**(3) 577-597 (1998), 10A564
Elastic-plastic stresses in rotating discs by von Mises and Tresca, Z Angew Math Mech **79**(4) 281-288 (1999), 10A583
Linearization and homogenization for viscoelastic materials (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 365-370 (Apr 1999), 10A588
Biaxial crushing of honeycombs - Part I: Experiments, Int J Solids Struct **36**(29) 4367-4396 (Oct 1999), 11A486
Experimental and FE study of the non-linear force: Displacement characteristics of tubular YT-joints under combined axial loading, J Strain Anal Eng Des **34**(3) 183-207 (May 1999), 11A487
In-plane biaxial crushing of honeycombs - Part II: Analysis, Int J Solids Struct **36**(29) 4397-4423 (Oct 1999), 11A488
Inconsistency in the structure of analyses proposed for localized necking in sheet metal (Japanese), J Soc Mat Sci Japan **48**(3) 257-263 (Mar 1999), 11A489
Study on the deformation of metals, J Mat Processing Tech **88**(1-3) 1-9 (Apr 1999), 11A490
Optimal design of elastic-plastic structures with post-critical behavior, Struct Optim **17**(2-3) 147-154 (Apr 1999), 11A866
Structural shape sensitivity analysis for nonlinear material models with strain softening, Struct Optim **17**(2-3) 162-171 (Apr 1999), 11A874
Path-independent J-integral and its dual form in elastic-plastic solids with finite displacements, Appl Math Mech **20**(3) 315-318 (Mar 1999), 12A824

254D. Stress concentrations and singularities

Minimization of stress concentration factors in fatigue crack repairs, Int J Fatigue **20**(10) 719-725 (Nov 1998), 3A520
Stress concentration factors within bolt-nut connectors under elastoplastic deformation, Int J Fatigue **20**(9) 651-659 (Oct 1998), 3A521
Split singularities: Stress field near the edge of a silicon die on a polymer substrate, Acta Mat **47**(1) 67-76 (Dec 1998), 6A562
Method for the assessment of hyperstatic cracked structures in the elastic-plastic regime, Eng Fracture Mech **61**(5-6) 519-535 (Nov-Dec 1998), 6A910
Mixed-mode fatigue from stress concentrations: An approach based on equivalent stress intensity, Int J Fatigue **21**(2) 173-178 (Feb 1999), 7A706
Simplified estimation method of inelastic stress-strain concentration at notch root (Japanese), J Soc Mat Sci Japan **48**(1) 30-37 (Jan 1999), 8A545
Dislocation pile-up model for the yield stress of a composite, Acta Mat **47**(5) 1635-1643 (Mar 1999), 9A600
Distributions of stress and plastic strain in notched tensile bars, Int J Fracture **91**(1) 1-11 (1998), 9A869
Fracture of geometrically scaled, notched three-point-bend bars of high strength steel, Eng Fracture Mech **62**(2-3) 291-310 (Jan-Feb 1999), 9A873
Plane stress crack tip field around a rapidly growing ductile-rigid interface crack, Int J Fracture **90**(4) 325-340 (1998), 9A876
Three-dimensional analyses of plastic constraint for through-thickness cracked bodies, Eng Fracture Mech **62**(4-5) 383-407 (Mar 1999), 9A878
Stress and strain concentration in viscoplastic notched cylinder subjected to harmonious loading (Russian), Prikl Mekh (Appl Mech) **35**(2) 15-22 (1999), 10A565
Stress concentration induced by an elastic spheroidal particle in a plastically deforming solid, J Mech Phys Solids **47**(6) 1301-1336 (Jun 1999), 10A566
Stress singularities in composite wedge-shaped materials, Fatigue Fracture Eng Mat Struct **22**(1) 11-15 (1999), 10A567
Notch effect in low cycle fatigue, Int J Fatigue **21**(5) 421-430 (May 1999), 11A753

254E. Contact problems and inclusions

Axisymmetric forging approach to preform design in ring rolling using a rigid-viscoplastic FEM, Int J Machine Tools Manuf **38**(10-11) 1183-1191 (Oct-Nov 1998), 1A761
Prediction of the cutting conditions giving plastic deformation of the tool in oblique machining, Int J Machine Tools Manuf **38**(10-11) 1165-1182 (Oct-Nov 1998), 1A793
Quasistatic contact problem for an elastic perfectly plastic body with Tresca's friction, Nonlinear Anal **35**(1) 95-109 (Jan 1999), 2A625
Fracture strength of a thin film in a ceramics film-substrate system (Japanese), J Soc Mat Sci Japan **47**(8) 819-824 (Aug 1998), 3A940
Analysis of plane and rough contacts, subjected to a shearing force, Int J Mech Sci **41**(1) 107-120 (Jan 1999), 4A520
Surface asperity deformation under bulk plastic straining conditions, Int J Mech Sci **41**(3) 283-307 (Mar 1999), 4A719
Indentation of a double shearing dilatant granular material by a smooth rigid wedge, Quart J Mech Appl Math **51**(4) 633-646 (Nov 1998), 5A458
Elastic modeling of inclusion induced microplasticity in metallic matrices from the dilating sphere problem, Int J Plasticity **14**(10-11) 1013-1032 (1998), 6A563
Inelastic flattening of rough surfaces, Mech Mat **31**(1) 29-41 (Jan 1999), 6A564
Finite element solutions comparing the normal contact of an elastic-plastic layered medium under loading by: (a) A rigid and (b) A deformable indenter, J Strain Anal Eng Des **33**(6) 411-418 (Nov 1998), 7A506
Properties of strength and distribution for ceramics subjected to contact load (Japanese), J Soc Mat Sci Japan **47**(12) 1251-1257 (Dec 1998), 7A542
Two-dimensional elastic-plastic FE analysis of friction effects on sliding crack surfaces in full or partial contact, Fatigue Fracture Eng Mat Struct **22**(2) 101-110 (1999), 10A48
Approximate analytical equations for the deformation of an inclusion in a viscoplastic matrix, Acta Mech **134**(3-4) 217-234 (1999), 10A568
Axial velocity distribution imparted on thin media transported by layered rolls, Int J Mech Sci **41**(10) 1233-1251 (Oct 1999), 10A569
Dispersion in oceanic crust during earthquake preparation, Int J Solids Struct **36**(23) 3469-3482 (Aug 1999), 10A570
Evolution of interfacial voids around cylindrical inclusion, J Appl Mech **66**(2) 310-314 (Jun 1999), 10A571
Continuum dislocation model of Vickers indentation on a zirconia, Acta Mat **47**(7) 2243-2257 (May 1999), 11A491
Viscoelastic-plastic model for skeletal structural systems with clearances, Comput Assisted Mech Eng Sci **6**(1) 83-106 (1999), 12A597
Experimental study of spherical indentation of piezoelectric materials, Acta Mat **47**(8) 2417-2430 (Jun 1999), 12A685

254F. Material characterization

Elevated temperature hardening of INCONEL 690, Mech Mat **30**(1) 69-81 (Sep 1998), 1A569
Micro-mechanical modeling of strain induced porosity under generally compressive stress states, Int J Plasticity **14**(7) 577-595 (1998), 2A626
Micromechanical modeling of martensitic transformation induced plasticity (trip) in austenitic single crystals, Int J Plasticity **14**(7) 597-626 (1998), 2A627
Numerical approach to visco-elastoplastic analysis for asphalt mixtures, Comput Struct **69**(2) 139-147 (Oct 1998), 2A628
Proceedings of the 7th International Conference on metal forming, J Mat Processing Tech **80-81** 1-712 (Aug-Sep 1998), 2A769
Plasticity and ductile fracture of IF steels: Experiments and micromechanical modeling, Int J Plasticity **14**(8) 789-803 (1998), 3A522
Studies in material parameter sensitivity of softening solids, Comput Methods Appl Mech Eng **162**(1-4) 337-350 (Aug 1998), 3A523
Viscoplastic analysis of bonded joints under complex loading, Polymers and Polymer Composites **6**(1) 15-24 (1998), 3A524
Crystallographic attributes of a shape-memory alloy, J Eng Mat Tech **121**(1) 93-97 (Jan 1999), 4A552
Deformation of A-M interface in single crystal shape memory alloys and some related issues, J Eng Mat Tech **121**(1) 38-43 (Jan 1999), 4A553
Electrical transport properties of shape memory alloys under a stress shape, J Eng Mat Tech **121**(1) 108-111 (Jan 1999), 4A554
Frequency-based equation of state for metals, Int J Impact Eng **21**(9) 747-760 (Oct 1998), 4A555
In-situ investigations of the martensitic transformation in TiNi by synchrotron radiation, J Eng Mat Tech **121**(1) 56-60 (Jan 1999), 4A556
Influence of aging on critical transformation stress levels and martensite start temperatures in NiTi - Part I: Aged microstructure and micro-mechanical modeling, J Eng Mat Tech **121**(1) 19-27 (Jan 1999), 4A557
Influence of aging on critical transformation stress levels and martensite start temperatures in NiTi - Part II: Discussion of experimental results, J Eng Mat Tech **121**(1) 28-37 (Jan 1999), 4A558
Material characterization of SMA actuators under nonproportional thermomechanical loading, J Eng Mat Tech **121**(1) 75-85 (Jan 1999), 4A559
Mechanical behavior of an Ni-Ti shape memory alloy under axial-torsional proportional and nonproportional loading, J Eng Mat Tech **121**(1) 9-18 (Jan 1999), 4A560
Microstructure and mechanical properties of sputter-deposited Ti-Ni alloy thin films, J Eng Mat Tech **121**(1) 2-8 (Jan 1999), 4A561
Model for compaction of metal powders, Int J Mech Sci **41**(2) 121-141 (Feb 1999), 4A562
Modeling of martensite accommodation effect on mechanical behavior of shape memory alloys, J Eng Mat Tech **121**(1) 102-104 (Jan 1999), 4A563
R-phase and precursory structures, J Eng Mat Tech **121**(1) 61-66 (Jan 1999), 4A564
Role of microstructure in the thermomechanical behavior of SMA composites, J Eng Mat Tech **121**(1) 86-92 (Jan 1999), 4A565
High temperature shape memory alloys, J Eng Mat Tech **121**(1) 98-101 (Jan 1999), 4A1409
Constitutive model for fcc crystals with application to polycrystalline OFHC copper, Mech Mat **30**(4) 325-341 (Dec 1998), 5A4
Development of intergranular strains in a high-strength steel, J Strain Anal Eng Des **33**(5) 373-383 (Sep 1998), 5A459
Mechanical properties in tension of mechanically attrited nanocrystalline iron by the use of the miniaturized disk bend test, Acta Mat **46**(18) 6459-6473 (Nov 1998), 5A460
Tensile flow properties of Al-based matrix composites reinforced with a random planar network of continuous metallic fibers, Acta Mat **46**(18) 6311-6323 (Nov 1998), 5A510
Plasticity approach to shear design, Cement & Concrete Composites **20**(6) 437-453 (1998), 5A788
Inelastic deformation and localization in polycarbonate under tension, Int J Solids Struct **36**(3) 391-425 (Jan 1999), 6A565
Micromechanical modeling of the hysteretic behavior in thermally induced martensitic phase transitions: Applicable to Cu-Zn-Al shape memory alloys, Acta Mat **47**(1) 13-21 (Dec 1998), 6A566
Recovery of AlMg alloys: Flow stress and strain-hardening properties, Acta Mat **47**(1) 127-134 (Dec 1998), 6A567
Modeling the influence of strain hardening and plastic constraint on crack closure of arbitrarily thick CCT-specimens, Fatigue Fracture Eng Mat Struct **21**(11) 1389-1401 (1998), 6A912
Study on tensile strength distribution and its temperature dependence for amorphous alloy ribbons (Japanese), J Soc Mat Sci Japan **47**(12) 1210-1215 (Dec 1998), 7A507
Inelastic effects of microcracking: A new continuum damage model, Int J Damage Mech **8**(1) 61-81 (Jan 1999), 7A758
Effect of tungsten on the mechanical properties of tantalum, J Eng Mat Tech **121**(2) 172-177 (Apr 1999), 8A546
Evaluation of yield criteria and flow rules for aluminium alloys, Int J Plasticity **15**(2) 191-208 (1999), 9A601
Mesoscopic modeling and simulation of plasticity in fcc and bcc crystals: Dislocation intersections and mobility, J Comput-Aided Mat Des **5**(1) 31-54 (1998), 9A602
Reverse yield experiments and internal variable evolution in polycrystalline metals, Int J Plasticity **15**(1) 93-117 (1999), 9A603
Role of texture in tension-compression asymmetry in polycrystalline NiTi, Int J Plasticity **15**(1) 69-92 (1999), 9A604
Constitutive modeling of textured body-centered-cubic polycrystals, Int J Plasticity **15**(6) 625-645 (1999), 10A572
Determination of constitutive properties from spherical indentation data using neural networks - Part I: The case of pure kinematic hardening in plasticity laws, J Mech Phys Solids **47**(7) 1569-1588 (Jul 1999), 10A573
Determination of constitutive properties from spherical indentation data using neural networks - Part II: Plasticity with nonlinear isotropic and kinematic hardening, J Mech Phys Solids **47**(7) 1589-1607 (Jul 1999), 10A574
Influence of the equilibrium stress growth law formulation on the modeling of recently observed relaxation behaviors, JSME Int J Ser A **41**(1) 103-111 (Jan 1998), 10A575
Modeling temperature and strain rate history effects in OFHC Cu, Int J Plasticity **15**(6) 575-603 (1999), 10A576
Irregularities and modulated dislocation patterns in plastically deformed metals: The Eckhaus instability, J Mech Behavior Mat **10**(1) 7-30 (1999), 11A492
Strength anomaly in Cd single crystals, J Mech Behavior Mat **10**(1) 1-6 (1999), 11A493
Uniaxial stress-strain behavior of aluminium alloy foams, Acta Mat **47**(8) 2323-2330 (Jun 1999), 12A598
Effects of temperature on mechanical properties of austenitic high nitrogen steels, Acta Polytech Scand Mech Eng **0**(136) 9-100 (1999), 12A1419

254G. Work hardening

Finite-element analysis of the indentation of an elastic-work hardening layered half-space by an elastic sphere, Int J Mech Sci **40**(12) 1281-1293 (Dec 1998), 1A24
Effects of strain hardening and strain-rate sensitivity on the penetration of aluminum targets with spherical-nosed rods, Int J Solids Struct **35**(28-29) 3737-3753 (Oct 1998), 1A242
Elevated temperature hardening of INCONEL 690, Mech Mat **30**(1) 69-81 (Sep 1998), 1A569
Multiple-slip work-hardening model in crystals with application to torsion-tension behaviors of aluminium tubes, Int J Plasticity **14**(6) 489-509 (1998), 1A570
Design of pressure vessels taking plastic reserve into account, Int J Pressure Vessels Piping **75**(4) 331-341 (Apr 1998), 1A1016
Surface hardening of alloy steels using a high intensity electron beam, Mat Manuf Processes **13**(4) 555-564 (1998), 2T817
Dislocation-based model for all hardening stages in large strain deformation, Acta Mat **46**(15) 5509-5522 (Sep 1998), 3A525
Polycrystal constraint and grain subdivision, Int J Plasticity **14**(8) 703-717 (1998), 3A526
CTOD design curve in consideration of material strain hardening, Int J Pressure Vessels Piping **75**(7) 567-573 (Jun 1998), 3A796
Antiplane shear flows in viscoplastic solids exhibiting isotropic and kinematic hardening, SIAM J Appl Math **58**(6) 1996-2023 (Dec 1998), 5A465
Plane deformation analysis of dilatant material with the strain-hardening elastoplastic model added non-coaxial components (Japanese), Proc JSCE **603**(III-44) 113-127 (Sep 1998), 5A470
Modeling the strain hardening response of low SFE fcc alloys, Int J Plasticity **14**(12) 1265-1277 (1998), 6A568
Engineering treatment model for pure power law and non-power law hardening materials, Fatigue Fracture Eng Mat Struct **21**(10) 1233-1248 (1998), 6A967
Finite element analysis of a strain hardening layered medium under normal loading by: (a) A rigid and (b) A deformable indenter, J Strain Anal Eng Des **33**(6) 411-410 (Nov 1998), 7A508
Continuum models for irregular phase boundary motion in shape-memory tensile bars, Eur J Mech A **18**(1) 1-16 (Jan-Feb 1999), 8A548
Dot matrix hardening of steels using a fiber optic coupled pulsed Nd:YAG laser, Mat Manuf Processes **14**(1) 53-65 (1999), 8T722
Exact analytical solution to a rigid-plastic problem with hardening and damage evolution, Comptes Rendus L'Acad Sci Serie II **327**(2-3) 193-199 (Feb-Mar 1999), 9A598
Mechanisms for hardening of carbon steel with a nanosecond high-energy, high-current electron beam, Mat Manuf Processes **14**(2) 205-216 (1999), 9T792
Determination of constitutive properties from spherical indentation data using neural networks - Part I: The case of pure kinematic hardening in plasticity laws, J Mech Phys Solids **47**(7) 1569-1588 (Jul 1999), 10A573
Determination of constitutive properties from spherical indentation data using neural networks - Part II: Plasticity with nonlinear isotropic and kinematic hardening, J Mech Phys Solids **47**(7) 1589-1607 (Jul 1999), 10A574
Effect of material parameters on shear band spacing in work-hardening gradient dependent thermoviscoplastic materials, Int J Plasticity **15**(5) 551-574 (1999), 10A577
Elastic-plastic deformation of a centrally heated cylinder exhibiting linear hardening, Z Angew Math Mech **79**(7) 493-498 (1999), 12A1420

254H. Cyclic and variable loading

Denting and fracture of sheet steel by blunt and sharp obstacles in glancing collisions, Int J Impact Eng **21**(7) 499-519 (Aug 1998), 1A249

Rupture of thin ductile tubes by oblique impact of flat-nosed missiles: Analysis, Int J Impact Eng **21**(7) 541-570 (Aug 1998), 1A254
Rupture of thin ductile tubes by oblique impact of blunt missiles: Experiments, Int J Impact Eng **21**(7) 571-587 (Aug 1998), 1A255
Asymmetry of stress-strain curves under tension and compression for NiTi shape memory alloys, Acta Mat **46**(12) 4325-4338 (Jul 1998), 1A571
Deformation and tearing of clamped circular work-hardening plates under impulsive loading, Int J Pressure Vessels Piping **75**(1) 67-73 (Jan 1998), 1A572
Inverse approach to determine the constitutive model parameters from axial crushing of thin-walled square tubes, Int J Impact Eng **21**(6) 433-449 (Jul 1998), 1A573
Metallic structures subjected to cyclic loadings - I: Inadequacy of the elastic analysis for the steady state assessment, Int J Pressure Vessels Piping **75**(3) 173-180 (Mar 1998), 1A574
Metallic structures subjected to cyclic loadings - II: A new approach to assess the steady state, Int J Pressure Vessels Piping **75**(3) 181-190 (Mar 1998), 1A575
Modified Swift law for prestrained materials, Int J Plasticity **14**(6) 537-550 (1998), 1A576
Necking and radial cracking around perforations in thin sheets at normal incidence, Int J Impact Eng **21**(7) 521-539 (Aug 1998), 1A577
Modeling nonlinear rate-dependent behavior in fiber-reinforced composites, Composites Sci Tech **58**(3-4) 603-611 (Mar-Apr 1998), 1A624
Fatigue damage accumulation model based on continuum damage mechanics and ductility exhaustion, Int J Fatigue **20**(7) 495-501 (Aug 1998), 1A838
Stochastic and deterministic aspects of strain localization during cyclic plastic deformation, Acta Mat **46**(12) 4143-4151 (Jul 1998), 1A865
Application of the BEM for analysis of shakedown problems, J Theor Appl Mech **36**(2) 387-401 (1998), 2A92
Cyclic stress-strain response and surface deformation features of [011] multiple-slip-oriented copper single crystals, Acta Mat **46**(13) 4497-4505 (Aug 1998), 2A629
Shakedown of torispherical heads using plastic analysis, J Pressure Vessel Tech **120**(4) 431-437 (Nov 1998), 2A630
Strain-rate-dependent constitutive equations for concrete, J Pressure Vessel Tech **120**(4) 398-405 (Nov 1998), 2A631
Viscoplastic collapse of thin-walled tubes under cyclic bending, J Eng Mat Tech **120**(4) 287-290 (Oct 1998), 2A632
Adiabatic shear localization in the impact of edge-notched specimens, Exp Mech **38**(3) 196-203 (Sep 1998), 2A893
Representation of cycle properties of austenitic steels with plasticity-induced martensitic transformation, Fatigue Fracture Eng Mat Struct **21**(8) 955-964 (1998), 3A527
Penetration of asymmetric long-rod projectiles at 2.6 km-s, Int J Impact Eng **21**(8) 625-643 (Sep 1998), 4A225
Improved ratcheting analysis of piping components, Int J Pressure Vessels Piping **75**(8) 643-652 (Jul 1998), 4A566
Mechanical oscillations in TiNi under synchronized martensite transformations, J Eng Mat Tech **121**(1) 105-107 (Jan 1999), 4A567
Revised form for the Johnson-Cook strength model, Int J Impact Eng **21**(8) 609-624 (Sep 1998), 4A568
Simulation of cyclic displacement by counterpoised shape memory elements, J Eng Mat Tech **121**(1) 67-74 (Jan 1999), 4A569
Total deformation theory for non-proportional loading, Int J Pressure Vessels Piping **75**(8) 633-642 (Jul 1998), 4A570
Transient and steady-state deformation at notch root under cyclic loading, Mech Mat **30**(3) 229-241 (Nov 1998), 4A571
Investigation of high-speed forming of circular plates in a liquid shock tube, Int J Impact Eng **21**(9) 801-816 (Oct 1998), 4A756
Adiabatic shear bands in the Taylor impact test for a WHA rod, Int J Plasticity **14**(9) 841-854 (1998), 5A205
Concept of plastic equilibrium points and its applications in cyclic plasticity, Int J Plasticity **14**(9) 933-943 (1998), 5A461
Influence of geometrical nonlinearities on the shakedown of damaged structures, Int J Plasticity **14**(9) 891-907 (1998), 5A462
Modeling of complex cyclic inelasticity in heterogeneous polycrystalline microstructure, Mech Mat **30**(4) 287-305 (Dec 1998), 5A463
Multiaxial cyclic plasticity model for non-proportional loading cases, Int J Plasticity **14**(9) 855-870 (1998), 5A464
Experimental study of the collapse of horizontal saddle-supported storage vessels, Proc Inst Mech Eng E **212**(E3) 183-195 (1998), 5A810
Anomalous behavior revisited: Dynamic response of elastic-plastic structures, Acta Mech Solida Sinica **11**(4) 283-294 (1998), 6A569
Cyclic stress-strain response of ferritic stainless steel single crystals with the (112) primary slip plane, Acta Mat **47**(1) 165-173 (Dec 1998), 6A570
Damage index for the characterization of confined masonry subjected to lateral cyclical loads (French), Mat Struct **31**(214) 692-698 (Dec 1998), 6A571
Endochronic constitutive model for rate-dependent and nonproportional cyclic plasticity, Acta Mech Solida Sinica **11**(4) 295-306 (1998), 6A572
Hydrodynamic approximation for long-rod penetration, Int J Impact Eng **22**(1) 23-43 (Jan 1999), 7A223
High-velocity projectile penetration into thick armour targets, Int J Impact Eng **22**(1) 45-54 (Jan 1999), 7A227
Cyclic plasticity, creep and fracture in a Nimonic alloy, J Strain Anal Eng Des **33**(6) 419-435 (Nov 1998), 7A509
Statistical model of microvoids' evolution in rate sensitive ductile materials - Solution for high stress triaxiality cases, Int J Damage Mech **8**(1) 41-60 (Jan 1999), 7A721
Non-deal projectile impact on targets, Int J Impact Eng **22**(2-3) 95-395 (Feb-Mar 1999), 8A227
Constitutive modeling of inelastic solids for plastic flow processes under cyclic dynamic loadings, J Eng Mat Tech **121**(2) 210-220 (Apr 1999), 8A547
Continuum models for irregular phase boundary motion in shape-memory tensile bars, Eur J Mech A **18**(1) 1-16 (Jan-Feb 1999), 8A548
Cyclic deformation of a directionally solidified cobalt-base superalloy, Fatigue Fracture Eng Mat Struct **21**(12) 1589-1594 (1998), 8A549
Cyclic plastic deformation at low temperature in liquid nitrogen and room temperature subsequent to prestrain at low temperature in liquid nitrogen and room temperature (Japanese), J Soc Mat Sci Japan **48**(1) 38-43 (Jan 1999), 8A550
Characterization of story-level seismic damage using an energy-based damage model, Exp Mech **39**(1) 53-61 (Mar 1999), 8A1500
Modeling of the Taylor cylinder impact test for orthotropic textured materials - Experiments and simulations, Int J Plasticity **15**(2) 139-166 (1999), 9A239
Adiabatic shear localization in the dynamic punch test - Part I: Experimental investigation, Int J Plasticity **15**(3) 241-262 (1999), 9A605
Adiabatic shear localization in the dynamic punch test - Part II: Numerical simulations, Int J Plasticity **15**(3) 263-283 (1999), 9A606
Analytical properties of the multidimensional continuous Mroz model of plasticity, Control and Cybernetics **27**(2) 198-215 (1998), 9A607
Deformation of metal pipe due to underwater shock wave, J Pressure Vessel Tech **121**(2) 176-180 (May 1999), 9A608
Viscoplastic analysis of thin-walled tubes under cyclic bending, Struct Eng and Mech **7**(5) 457-471 (May 1999), 9A609
Characterization of low cycle fatigue damage in 9Cr-1Mo ferritic steel using X-ray diffraction technique, Int J Pressure Vessels Piping **76**(5) 275-281 (Apr 1999), 9A804
Plasticity in fretting of coated substrates, Eng Fracture Mech **62**(2-3) 145-164 (Jan-Feb 1999), 9A1024
Modification to the mathematical model of perforation by Dikshit and Sundararajan, Int J Impact Eng **22**(5) 543-550 (May 1999), 10A270
Creep/creep-recovery response of fibredux 920C-TS-5-42 composite under flexural loading, Adv Composites Letters **8**(1) 71-86 (1999), 10A546
Constitutive behavior of Epon 828/T-403 at various strain rates, Mech Time-Dependent Mat **2**(2) 103-111 (1998), 10A578
Triaxial tension-compression tests for multiaxial cyclic plasticity, Int J Plasticity **15**(5) 521-549 (1999), 10A579
Validation of the methods related to cyclic behavior of metallic structures, Int J Plasticity **15**(4) 457-478 (1999), 10A580
Cycle deformation behavior of non-isoaxial copper tricrystals and bicrystals, Acta Mat **47**(7) 2165-2176 (May 1999), 11A494
Plastic deformation and fracture behavior of Ti_3Al single crystals deformed at high temperatures under cyclic loading, Acta Mat **47**(7) 2019-2029 (May 1999), 11A495
Theoretical and experimental results of the elastic-plastic response of a circular rod subjected to non-proportional combined torque and tension loadings, Proc Inst Mech Eng C **213**(C3) 251-261 (1999), 11A496
Lifetime prediction for intercrystalline fracture under cyclic loading with various strain rates, Int J Fatigue **21**(5) 497-505 (May 1999), 11A752
Cyclic stress-strain curves generated from random cyclic strain amplitude tests, Int J Fatigue **21**(6) 521-530 (Jul 1999), 11A765
Profiled polymer pipes as re-usable energy absorption elements, Int J Mech Sci **41**(11) 1385-1400 (Nov 1999), 12A599
Cyclic response and fatigue of steels subjected to strain control with non-zero means, J Test Eval **27**(1) 15-30 (Jan 1999), 12A764
Fatigue damage initiation in Waspaloy under complex cyclic loading, J Eng Mat Tech **121**(3) 278-285 (Jul 1999), 12A771
Fatigue failure of an open cell and a closed cell aluminium alloy foam, Acta Mat **47**(8) 2511-2524 (Jun 1999), 12A772

254I. Visco- and elastoplastic media

Steady-state shear band propagation under dynamic conditions, J Mech Phys Solids **46**(8) 1463-1495 (Aug 1998), 1A195
Damage in a viscoplastic material - Part II: Overall behavior, Int J Plasticity **14**(6) 453-471 (1998), 1A578
Evaluation of elasto-plastic interfacial fracture parameters in solder-copper bimaterial using moire interferometry, J Electron Packaging **120**(3) 267-274 (Sep 1998), 1A579
Formulation of finite elastoplasticity based on dual co- and contra-variant eigenvector triads normalized with respect to a plastic metric, Comput Methods Appl Mech Eng **159**(3-4) 223-260 (Jul 1998), 1A580
Mathematical analysis of the elasto-plastic plane stress problem of a power-law material, IMA J Appl Math **60**(2) 139-149 (Apr 1998), 1A581
New approach to viscoplasticity in plane-strain extrusion, J Mat Processing Tech **79**(1-3) 144-154 (Jul 1998), 1A582
Monoharmonic approximation in the problems of deformation of visco-plastic bodies under harmonic loading (Russian), Prikl Mekh (Appl Mech) **33**(7) 57-64 (1997), 2A14
Elastoplastic equilibrium of an orthotropic composition with the system of colinear fiber inclusions (Russian), Prikl Mekh (Appl Mech) **33**(5) 55-59 (1998), 2T633
Implicit constitutive modeling for viscoplasticity using neural networks, Int J Numer Methods Eng **43**(2) 195-219 (Sep 1998), 2A634
Stability of two fibers in elastoplastic matrix under compression (Russian), Prikl Mekh (Appl Mech) **34**(5) 3-11 (1998), 2A635
Surface instability of the elasto-plastic half-space under combined loading (Russian), Prikl Mekh (Appl Mech) **33**(7) 10-15 (1997), 2A717
Time-dependent creep of a dual-phase viscoplastic material with lamellar structure, Int J Plasticity **14**(8) 755-770 (1998), 3A507
Description of the contact between a deterministic anisotropic tool surface and a workpiece subjected to plastic deformation, Proc Inst Mech Eng J Eng Manuf **212**(B5) 403-409 (1998), 3A528
Elastic-plastic analysis of tube bending, Int J Machine Tools Manuf **39**(1) 87-104 (Jan 1998), 3A529
Eulerian-based approach to elastic-plastic decomposition, Acta Mech **131**(1-2) 111-119 (1998), 3A530
Theoretical and numerical methods in the theory of porous media based on polar and non-polar elasto-plastic solid materials, Int J Solids Struct **35**(34-35) 4597-4617 (Dec 1998), 3A531
Analysis of tapered preforms in cold upsetting, Int J Machine Tools Manuf **39**(1) 1-16 (Jan 1998), 3A688
Shear band formation in thermoviscoplastic solids under plane strain compression, Acta Mech Solida Sinica **11**(3) 216-228 (1998), 3A1337
Vibrations of Elasto-Plastic Bodies (Springer-Verlag, Berlin, 1998) 4R10
Elastoplastic equilibrium of a plane with a circular hole under effect of compressing forces (Russian), Prikl Mekh (Appl Mech) **34**(6) 99-103 (1998), 4A517
Degenerate quasilinear elliptic equations arising from bimaterial problems in elastic-plastic mechanics, Nonlinear Anal **35**(4) 517-529 (Feb 1999), 4T572
Dynamic bifurcation during high-rate planar extension of a thin rectangular block, Eur J Mech A **17**(5) 709-724 (1998), 4A573
Elastoplastically accommodated hydride formation and embrittlement, J Mech Phys Solids **46**(9) 1497-1520 (Sep 1998), 4A574
Modeling the elastoviscoplastic response of metals using polycrystal plasticity, Comput Methods Appl Mech Eng **165**(1-4) 1-21 (Nov 1998), 4A575
Modeling the behavior of unsaturated soil using an elastoplastic constitutive model, Geotechnique **48**(5) 589-603 (Oct 1998), 4A689
Inverse problems for identification of memory kernels in thermo- and poro-viscoelasticity, Math Methods Appl Sci **21**(16) 1495-1517 (Nov 1998), 4A1408
Antiplane shear flows in viscoplastic solids exhibiting isotropic and kinematic hardening, SIAM J Appl Math **58**(6) 1996-2023 (Dec 1998), 5A465
Decomposition of deformation into elastic-plastic parts, J Appl Mech **65**(4) 1059-1061 (Dec 1998), 5A466
Extremum properties of finite-step solutions in elastoplasticity, Int J Solids Struct **36**(2) 185-218 (Jan 1999), 5A467
Generalized form of elastoplastic constitutive matrix, J Eng Appl Sci **45**(4) 481-496 (Aug 1998), 5A468
Limitations to leading-order asymptotic solutions for elastic-plastic crack growth, J Mech Phys Solids **46**(12) 2361-2386 (Dec 1998), 5A469
Plane deformation analysis of dilatant material with the strain-hardening elastoplastic model added non-coaxial components (Japanese), Proc JSCE **603**(III-44) 113-127 (Sep 1998), 5A470
Structural shakedown for elastic-plastic materials with hardening saturation surface, Int J Solids Struct **36**(2) 219-240 (Jan 1999), 5A471
Consistent equilibirum in a cross-section of an elastic-plastic beam, Int J Solids Struct **36**(2) 311-337 (Jan 1999), 5A541
Elastoplastic analysis of space trusses considering the effects of large displacements and softening, Mech Struct Machines **26**(4) 423-441 (1998), 5T809
Structure of adiabatic shear bands in thermo-viscoplastic materials, Eur J Mech A **17**(6) 923-938 (Nov-Dec 1998), 5A1332
H-adaptive FE analysis of elastoplastic non-homogeneous soil with large deformation, Comput Geotech **23**(1-2) 61-83 (1998), 6A26
Plane problem of the extrusion of a viscoplastic medium by parallel plates, J Appl Math Mech **62**(4) 565-573 (1998), 6A573
Scale-dependent deformation of porous single crystals, Int J Plasticity **14**(10-11) 1085-1107 (1998), 6A574
Calculation of drawbead restraining forces with the Bauschinger effect, Proc Inst Mech Eng J Eng Manuf **212**(B7) 549-553 (1998), 6A791
Elastoplastic material with isotropic damage, Int J Solids Struct **36**(5) 727-747 (Feb 1999), 6A889
Integrated micro-macro thermo-elastic-viscoplastic analysis of laminate metal matrix composites, J Thermal Stresses **21**(9) 897-917 (Dec 1998), 6A1404
Displacement-based reference frame formulation for steady-state thermo-elasto-plastic material processes, Int J Solids Struct **36**(16) 2397-2416 (Jun 1999), 7A510
Finite lateral compression of an elastic-plastic fiber-reinforced tube: Loading solutions, J Mech Phys Solids **47**(2) 371-395 (Feb 1999), 7A511
Instabilities in elastic-plastic fluid-saturated porous media: Harmonic wave versus acceleration wave analyses, Int J Solids Struct **36**(9) 1277-1295 (Mar 1999), 7A512
Scaling relationships in conical indentation of elastic-perfectly plastic solids, Int J Solids Struct **36**(8) 1231-1243 (Mar 1999), 7A513
Bifurcation of elastoplastic pressure-sensitive hollow cylinders, J Appl Mech **66**(1) 117-123 (Mar 1999), 8A551
Experimental study of internal variable evolution in SS304L, at multiple rates and temperatures, J Eng Mat Tech **121**(2) 162-171 (Apr 1999), 8A552
Influence of a ductile interphase on the overall elasto-plastic behavior of a fiber-reinforced composite, J Appl Mech **66**(1) 21-31 (Mar 1999), 8A586
Spherical impression of thin elastic films on elastic-plastic substrates, Int J Solids Struct **36**(18) 2773-2788 (Jun 1999), 8A624
Elastoplastic FE analysis of 3D fatigue crack growth in aluminum shafts subjected to axial loading, Int J Solids Struct **36**(15) 2231-2258 (May 1999), 8A741
Steady-state limit analysis of elastoplastic trusses under cyclic loads, Int J Solids Struct **36**(20) 3051-3071 (Jul 1999), 8A828
Strain localization in fluid-saturated anisotropic elastic-plastic porous media with double porosity, J Mech Phys Solids **47**(3) 503-530 (Mar !999), 8A1469
Aspects of testpiece design responsible for errors in cyclic plasticity experiments, Int J Damage Mech **8**(2) 109-137 (Apr 1999), 9A610
Elastic plastic analysis by the asymptotic pivoting method, Comput Struct **71**(1) 215-238 (Apr 1999), 9A611
Integral formulation and self-consistent modeling of elastoviscoplastic behavior of heterogeneous materials, Arch Appl Mech **69**(1) 14-35 (Feb 1999), 9A612
Numerical analysis of localization using a viscoplastic regularization: Influence of stochastic material defects, Int J Numer Methods Eng **44**(12) 1823-1841 (Apr 1999), 9A613
Periodic solutions of nonlinear kinematic hardening models, Math Methods Appl Sci **22**(6) 515-529 (Apr 1999), 9A614
Sufficient conditions for stability of viscous solids (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 25-31 (Jan 1999), 9A615
Approximate analytical equations for the deformation of an inclusion in a viscoplastic matrix, Acta Mech **134**(3-4) 217-234 (1999), 10A568
Influence of the equilibrium stress growth law formulation on the modeling of recently observed relaxation behaviors, JSME Int J Ser A **41**(1) 103-111 (Jan 1998), 10A575
Analytical and experimental evaluation of nonlinear viscoelastic-viscoplastic composite laminates under creep, creep-recovery, relaxation and ramp loading, Mech Time-Dependent Mat **2**(2) 113-128 (1998), 10A581
Construction of solution of a plane problem for the complex medium with the unknown boundary

(Russian), Prikl Mekh (Appl Mech) **34**(11) 66-77 (1998), 10A582
Elastic-plastic stresses in rotating discs by von Mises and Tresca, Z Angew Math Mech **79**(4) 281-288 (1999), 10A583
Elastoplastic materials with martensitic phase transition and twinning at finite strains: Numerical solution with the FE method, Comput Methods Appl Mech Eng **173**(1-2) 71-98 (Apr 1999), 10A584
Endochronic analysis for rate-dependent elasto-plastic deformation, Int J Solids Struct **36**(21) 3215-3237 (Jul 1999), 10A585
Integration algorithm for modeling the elasto-viscoplastic response of polycrystalline materials, J Mech Phys Solids **47**(6) 1219-1238 (Jun 1999), 10A586
Kinematics of damage for finite-strain elasto-plastic solids, Int J Eng Sci **37**(7) 803-830 (May 1999), 10A587
Linearization and homogenization for viscoelastic materials (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 365-370 (Apr 1999), 10A588
Mesomechanical study of characteristics of elasto-plastic tensile deformation of metal matrix composites, J Dalian Univ Tech **39**(2) 144-149 (Mar 1999), 10A589
Plastic deformation and non-Newtonian flow in glassy polycarbonate, JSME Int J Ser A **41**(1) 31-39 (Jan 1998), 10A590
Viscoplastic plane-strain analysis of infinite solids using elastic supports, Int J Numer Methods Eng **45**(3) 355-369 (May 1999), 10A591
Elasticity and plasticity of dilatant granular materials, J Mech Phys Solids **47**(6) 1397-1408 (Jun 1999), 10A620
Improved implicit algorithm for the elastic viscoplastic BEM, Z Angew Math Mech **79**(5) 317-333 (1999), 11A75
Case of indispensable localized instability in elastic-plastic solids, Int J Solids Struct **36**(30) 4669-4691 (Oct 1999), 11A497
Comparison of incremental behavior of elastoplastic and CLoE models, Int J Numer Anal Methods Geomech **23**(4) 295-316 (Apr 1999), 11A498
Further development of a data reduction method for the nonlinear viscoelastic characterization of FRPs, Composites Part A Appl Sci and Manuf **30A**(7) 839-848 (1999), 11A499
Modeling and simulation of (visco)-plastic behavior of wood under moisture change, Mech Res Commun **26**(2) 203-208 (Mar-Apr 1999), 11T500
Predictive measure of thermomechanical coupling in elasto-viscoplastic composites, Composites Sci Tech **59**(7) 1023-1031 (May-Jun 1999), 11A501
Unified elasto-plastic associated and non-associated constitutive model and its engineering applications, Comput Struct **71**(6) 627-636 (Jun 1999), 11A502
Additive method for determination of flowrate of viscoplastic fluids in annuli, Appl Mech Eng **4**(S) 103-108 (1999), 11T1021
Elastic-plastic rotating annular disk with rigid casing, Z Angew Math Mech **79**(7) 499-503 (1999), 12A600
Thermoelastic-plastic analysis of solids at finite deformations, Proc Estonian Acad Sci Eng **5**(2) 122-130 (Jun 1999), 12A601
Unified elastic-viscosic-plastic theory of solids, Appl Math Mech **20**(3) 254-261 (Mar 1999), 12A602
Elastic-plastic deformation of a centrally heated cylinder exhibiting linear hardening, Z Angew Math Mech **79**(7) 493-498 (1999), 12A1420

254K. Anisotropic and nonhomogeneous media

Self-consistent model of rate-dependent plasticity of polycrystals, Arch Mech **50**(2) 247-263 (1998), 1A583
Yielding and deformation of porous plastic materials, Mech Mat **30**(1) 55-68 (Sep 1998), 1A584
Proceedings of the International Symposium on deformation characteristics and modeling of materials in honor of Professor Sia Nemat-Nasser's 60th birthday: Sendai, Japan, August 22-23, 1996, Mech Mat **28**(1-4) 1-279 (May 1998), 1T633
Elastic-plastic micromechanical analysis of a cross-ply composite, Composites Sci Tech **58**(3-4) 527-537 (Mar-Apr 1998), 1A635
Prediction of surface crack during cylindrical upsetting of porous materials by FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 14-17 (May 1998), 1A903
Deformation induced anisotropy and memorized back stress in constitutive model, Int J Plasticity **14**(7) 627-646 (1998), 2A636
Plastic flow of γ-TiAl-based polysynthetically twinned crystals: Micromechanical modeling and experimental validation, Acta Mat **46**(13) 4701-4709 (Aug 1998), 2A637
Plasticity of particle-reinforced composites with a ductile interphase, J Appl Mech **65**(3) 596-604 (Sep 1998), 2A638
Prediction of forming limit strains under strain-path changes: Application of an anisotropic model based on texture and dislocation structure, Int J Plasticity **14**(7) 647-669 (1998), 2A639
Three-dimensional computer simulation of anisotropic grain growth in ceramics, Acta Mat **46**(13) 4629-4640 (Aug 1998), 2A640
Hybrid membrane-shell method for rapid estimation of springback in anisotropic sheet metals, J Appl Mech **65**(3) 671-684 (Sep 1998), 2A780
Ductile-brittle size transition of iron aluminide ligaments in an FeAl-TiC composite, Acta Mat **46**(13) 4733-4741 (Aug 1998), 2A874
Theoretical and numerical methods in the theory of porous media based on polar and non-polar elasto-plastic solid materials, Int J Solids Struct **35**(34-35) 4597-4617 (Dec 1998), 3A531
Growth of shear bands in composite microstructures, Int J Plasticity **14**(8) 733-754 (1998), 3A532
Influence of porosity on the failure behavior of foams, Int J Damage Mech **7**(4) 301-331 (Oct 1998), 3A533
Texture development and plastic anisotropy of BCC strain hardening sheet metals, Int J Solids Struct **35**(36) 5205-5236 (Dec 1998), 3A534
Prediction of tensile yield strength of rigid inorganic particulate filled thermoplastic composites, J Mat Processing Tech **83**(1-3) 127-130 (Nov 1998), 3A552
Anisotropy of Cu-based shape memory alloys in tension-compression thermomechanical loads, J Eng Mat Tech **121**(1) 48-55 (Jan 1999), 4A576
Behavior of intact and damaged honeycombs: A FE study, Int J Mech Sci **41**(1) 85-105 (Jan 1999), 4A681
Non-quadratic plasticity model suitable for metal matrix composites, J Composite Mat **32**(23) 2156-2176 (1998), 5A472
Plastic spin: Necessity or redundancy, Int J Plasticity **14**(9) 909-931 (1998), 5A473
Simple model for stress fluctuations in plasticity with application to granular materials, SIAM J Appl Math **58**(6) 1791-1807 (Dec 1998), 5A474
Modeling of secondary creep behavior for anisotropic materials with different properties in tension and compression, Int J Plasticity **14**(10-11) 1059-1083 (1998), 6A542
Reliability analysis of mid-plane symmetric laminated plates using direct simulation method, Composite Struct **43**(1) 1-13 (Sep 1998), 6A628
Anisotropic plasticity with application to sheet metals, Int J Mech Sci **41**(6) 703-724 (Jun 1999), 7A514
Predictions of texture and plastic anisotropy developed by mechanical deformation in aluminum sheet, J Mat Processing Tech **87**(1-3) 146-153 (Mar 1999), 7A515
Probabilistic characterization of porous plasticity in solids, Mech Res Commun **26**(1) 99-106 (Jan-Feb 1999), 7T516
Endochronic description of plastic anisotropy in sheet metal, Int J Solids Struct **36**(18) 2735-2756 (Jun 1999), 8A553
Laser-induced deformation patterns in thin films and surfaces, J Eng Mat Tech **121**(2) 182-188 (Apr 1999), 8A554
Multiscale polycrystal plasticity, J Eng Mat Tech **121**(2) 203-209 (Apr 1999), 8A555
Representations of yield functions for crystals, quasi-crystals and transversely isotropic solids, Eur J Mech A **18**(1) 47-67 (Jan-Feb 1999), 8A556
Surface bifurcation in anisotropic materials with application to aluminum alloys, J Appl Mech **66**(1) 62-68 (Mar 1999), 8A557
Coalescence-controlled anisotropic ductile fracture, J Eng Mat Tech **121**(2) 221-229 (Apr 1999), 8A777
Integral formulation and self-consistent modeling of elastoviscoplastic behavior of heterogeneous materials, Arch Appl Mech **69**(1) 14-35 (Feb 1999), 9A612
Robust method for inelastic analysis of components made of anisotropic material, J Pressure Vessel Tech **121**(2) 154-159 (May 1999), 9A616
Tension-compression asymmetry of the stress-strain response in aged single crystal and polycrystalline NiTi, Acta Mat **47**(4) 1203-1217 (Mar 1999), 9A617
Crystallographic model for the study of local deformation processes in polycrystals, Int J Plasticity **15**(6) 605-624 (1999), 10A592
Effects of elastic anisotropy on strain localization and flutter instability in plastic solids, J Mech Phys Solids **47**(7) 1409-1436 (Jul 1999), 10A593
Yield stress of randomly perforated sheets and anisotropic yield function, JSME Int J Ser A **40**(4) 353-361 (Oct 1997), 10A594
One method of solving linear viscoelastic theory problems for anisotropic ageing materials (Russian), Prikl Mekh (Appl Mech) **34**(11) 60-65 (1998), 10A609
Fabric tensors in bone mechanics, Eng Trans **46**(1) 3-26 (1998), 10A1607
Extreme states of plastic anisotropy in single crystals and polycrystalline FCC metal, Bull Polish Acad Sci Tech Sci **46**(3) 301-315 (1998), 11A503
New aspects of plastic anisotropy in materials, Bull Polish Acad Sci Tech Sci **46**(3) 289-300 (1998), 11A504
Paraboloid failure surface for transversely isotropic materials, Mech Mat **31**(6) 381-393 (Jun 1999), 11A505
Fluid-structure interaction in the localization of saturated porous media, Z Angew Math Mech **79**(7) 481-484 (1999), 12A1518

254L. Residual stress

Parametric study of residual stresses in multi-pass butt-welded stainless steel pipes, Int J Pressure Vessels Piping **75**(1) 11-25 (Jan 1998), 1A585
Thermomechanically induced residual strains in Al-SiC_p metal-matrix composites, Composites Sci Tech **58**(3-4) 345-353 (Mar-Apr 1998), 1A1377
Characterization of residual stresses generated during inhomogeneous plastic deformation, J Strain Anal Eng Des **33**(3) 243-252 (May 1998), 2A641
Numerical simulation of residual stresses caused by quenching process in aluminium gas cylinders, J Eng Mat Tech **120**(4) 297-299 (Oct 1998), 2A642
Review of recent developments and applications in the field of X-ray diffraction for residual stress studies, J Strain Anal Eng Des **33**(2) 127-136 (Mar 1998), 2A643
Residual thermal stresses in metallic and intermetallic matrix composites after cooling from processing temperature, J Composite Tech Res **20**(3) 161-169 (Jul 1998), 2A1330
FE analysis of the residual stress distribution in the vicinity of a fatigue fractured surface, Eng Fracture Mech **60**(4) 447-455 (Jul 1998), 3A35
Improvement of residual stress in stainless steel by cavitating jet (Japanese), J Soc Mat Sci Japan **47**(8) 808-812 (Aug 1998), 3A535
Assessment of the Sachs method for measuring residual stresses in cold worked fastener holes, J Strain Anal Eng Des **33**(4) 263-274 (Jul 1998), 4A577
New method for estimating residual stresses by instrumented sharp indentation, Acta Mat **46**(16) 5755-5767 (Oct 1998), 4A578
X-ray measurement of axial and hoop residual stresses in microcomposite specimens, J Thermal Stresses **21**(7) 743-749 (Oct 1998), 4A625
Computer simulation of residual stresses-distortion and structural change in the course of scanning induction hardening (Japanese), J Soc Mat Sci Japan **47**(9) 892-898 (Sep 1998), 5A475
Effect of block braking on the residual stress state of a solid railway wheel, Proc Inst Mech Eng F **212**(F2) 145-158 (1998), 5A476
Model for the variation of the residual stress state during plastic deformation under uniaxial tension, J Strain Anal Eng Des **33**(5) 367-372 (Sep 1998), 5A477
Simple estimating method for reduction of welding residual stresses in thick welded joint from stress-relief annealing - Part II: The characteristics of reduction of welding residual stresses in very thick joints during SR treatment, J Pressure Vessel Tech **121**(1) 11-16 (Feb 1999), 5A478
Study of residual stress distribution by a combined method of Moire interferometry and incremental hole drilling - Part I: Theory, J Appl Mech **65**(4) 837-843 (Dec 1998), 5A479
Study of residual stress distribution by a combined method of moire interferometry and incremental hole drilling - Part II: Implementation, J Appl Mech **65**(4) 844-850 (Dec 1998), 5A480
Use of strain energy to quantify the effect of residual stress on mechanical behavior, Math Mech Solids **3**(4) 447-470 (Dec 1998), 5A481
Effect of welding conditions on residual stresses due to butt welds, Int J Pressure Vessels Piping **75**(12) 857-864 (Oct 1998), 5A875
Inelastic flattening of rough surfaces, Mech Mat **31**(1) 29-41 (Jan 1999), 6A564
Evaluation of residual stresses in the bulk of materials by high energy synchrotron diffraction, J Nondestruct Eval **17**(3) 129-140 (Sep 1998), 6A575
Residual stresses and workpiece deformation due to polishing and plating of computer hard disk substrates, J Manuf Sci Eng **121**(1) 32-40 (Feb 1999), 6A576
Study of through-thickness residual stress by numerical and experimental techniques, J Strain Anal Eng Des **33**(6) 449-458 (Nov 1998), 7A517
Residual deformation of active structures with SMA actuators, Int J Mech Sci **41**(6) 595-619 (Jun 1999), 7A824
Alleviation of quenching residual stresses by cold working the necks of seamless 6351 aluminium alloy thick-walled gas cylinders, Int J Pressure Vessels Piping **75**(14) 971-977 (Dec 1998), 7A883
Residual stress analysis of functionally gradient materials, Mech Res Commun **26**(1) 55-60 (Jan-Feb 1999), 7A1423
Thermal residual strains and stresses in Al_2O_3/Al composites with interpenetrating networks, Acta Mat **47**(2) 565-577 (Jan 1999), 7A1424
Whole-field residual stress measurement in rail using moire interferometry and Twyman-Green interferometry via thermal annealing, Exp Mech **39**(1) 71-76 (Mar 1999), 8A558
Modeling the evolution of residual stresses during tensile testing of elastoplastic wires subjected to a previous bending operation, Int J Mech Sci **41**(9) 1031-1050 (Sep 1999), 9A618
Influence of some parameters on the residual stresses from quenching, Model Simulation Mat Sci Eng **7**(1) 25-41 (Jan 1999), 9A1424
Comparison of five evaluation methods of residual stress in a welded pipe joint, JSME Int J Ser A **42**(1) 104-110 (Jan 1999), 10A595
Retrogression, reaging, and residual stresses in 7010 forgings, Fatigue Fracture Eng Mat Struct **22**(1) 51-58 (1999), 10A596
Residual stresses in short-fiber reinforced injection-molded thermoplastic parts, Mech Time-Dependent Mat **2**(2) 129-169 (1998), 10A633
Effect of secondary phase on elastic constants for stress measurement of multi-phase materials by X-ray and neutron diffraction methods, JSME Int J Ser A **41**(2) 280-286 (Apr 1998), 10A945
Analysis of stress gradient in ceramic film by X-ray method, JSME Int J Ser A **41**(3) 416-421 (Jul 1998), 10A970
X-ray study of residual stress distribution of ground ceramics, JSME Int J Ser A **41**(3) 422-429 (Jul 1998), 10A971
Optimal calculation steps for the evaluation of residual stress by the incremental hole-drilling method, Exp Mech **39**(2) 117-124 (Jun 1999), 11A506
Measuring residual stress and the resulting stress intensity factor in compact tension specimens, Fatigue Fracture Eng Mat Struct **22**(3) 195-204 (Mar 1999), 11A788

254M. Physical theory (dislocations, etc)

Nonlinear mechanics of Bravais crystals with continuous distributions of defects, Math Mech Solids **3**(3) 331-358 (Sep 1998), 2A644
Note on the effective Lame constants of polycrystalline aggregates of cubic crystals, J Appl Mech **65**(3) 769-770 (Sep 1998), 2A645
Role of dislocations in high-strain-rate superplasticity of an Al-Ni-Misch metal alloy, Acta Mat **46**(13) 4469-4478 (Aug 1998), 2A646
Yield stress of fine grained materials, Acta Mat **46**(13) 4527-4534 (Aug 1998), 2A647
Explaining the analogy between dislocation line in crystal and vortex filament in fluid, Mech Res Commun **25**(5) 487-492 (Sep-Oct 1998), 3T536
Stability of a dislocation: Discrete model, European J Appl Math **9**(4) 373-396 (Aug 1998), 3A537
Use of different strain measures: Application to a theoretical model for the thermal expansion coefficients of non-cubic solids, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **321**(10) 413-419 (Nov 1995), 3A538
Three-dimensional model for solids undergoing stress-induced phase transformations, Eur J Mech A **17**(5) 789-806 (1998), 4A551
Atomistic simulations of deformation and fracture of α-Fe, Model Simulation Mat Sci Eng **6**(5) 567-586 (Sep 1998), 5A482
Dislocation arrays at the interface between an epitaxial layer and its substrate, Math Mech Solids **3**(4) 411-431 (Dec 1998), 5A483
Linear relationships between the stress fields of (111) line defects, J Appl Mech **65**(4) 1064-1066 (Dec 1998), 5T484
Monte Carlo studies of 2D dislocation systems in applied external stress, Model Simulation Mat Sci Eng **6**(5) 507-519 (Sep 1998), 5A485
Nonessential descriptions of crystal multilattices, Math Mech Solids **3**(4) 363-392 (Dec 1998), 5A486
Quasicontinuum simulation of fracture at the atomic scale, Model Simulation Mat Sci Eng **6**(5) 607-638 (Sep 1998), 5A487
Influence of strain rate on grain size dependence of strength of sheet steel (Japanese), J Soc Mat Sci Japan **47**(10) 1053-1058 (Oct 1998), 6A577
Mesoscopic scale simulation of dislocation dynamics in fcc metals: Principles and applications, Model Simulation Mat Sci Eng **6**(6) 755-770 (Nov 1998), 6A578
Possible application of the first-principles simulation to evaluation of materials strength (Japanese), J Soc Mat Sci Japan **47**(11) 1099-1105 (Nov 1998), 6T579
Representations of yield functions for crystals, quasi-crystals and transversely isotropic solids, Eur J Mech A **18**(1) 47-67 (Jan-Feb 1999), 8A556
Local stress-strain behavior of polycrystalline materials (Japanese), J Soc Mat Sci Japan **48**(1) 44-48 (Jan 1999), 8A559
Model problems of polycrystal plasticity with deficient basic crystals, SIAM J Appl Math **59**(1) 172-197 (Sep 1998), 8A560
Nanobuckling of monomolecular layers adhering to a substrate, J Appl Mech **66**(1) 51-54 (Mar 1999), 8A561
Determination of the characteristic dissipation in the propagation of a lattice transition front, Comptes Rendus L'Acad Sci Serie II **327**(2-3) 179-184 (Feb-Mar 1999), 9A619
Atomic simulation on deformation and fracture of nano-single crystal of nickel in tension, JSME Int J Ser A **40**(4) 430-435 (Oct 1997), 10A597

Fundamental solution for a prismatic dislocation loop in a two-phase transversely isotropic elastic material considering interfacial energy, JSME Int J Ser A **41**(4) 465-472 (Oct 1998), 10A598
Molecular dynamics study on grain boundary diffusion in aluminum under hydrostatic stress, JSME Int J Ser A **41**(1) 10-15 (Jan 1998), 10A599
Nonlocal elastic constants of centrosymmetric homogeneous lattice structure and inhomogeneous one, JSME Int J Ser A **41**(4) 547-553 (Oct 1998), 10A600
Plastic inclusion with moving boundary: Application to dislocation cell structures, Arch Mech **50**(4) 757-789 (1998), 10A601
Sharp-interface and phase-field theories of recrystallization in the plane, Physica D **130**(1-2) 133-154 (Jun 1999), 11A507
Eulerian FE simulations of experimentally acquired HMX microstructures, Model Simulation Mat Sci Eng **7**(3) 333-354 (May 1999), 12A34

254Y. Computational techniques

Process induced stresses of a flip-chip packaging by sequential processing modeling technique, J Electron Packaging **120**(3) 309-313 (Sep 1998), 1A560
Yielding and deformation of porous plastic materials, Mech Mat **30**(1) 55-68 (Sep 1998), 1A584
Algorithm for gradient-regularized plasticity coupled to damage based on a dual mixed FE-formulation, Comput Methods Appl Mech Eng **161**(1-2) 49-65 (Aug 1998), 1A586
Classical plasticity and viscoplasticity models reformulated: Theoretical basis and numerical implementation, Int J Numer Methods Eng **42**(8) 1499-1535 (Aug 1998), 1A587
Complete polynomial expansion of domain variables at boundary for 2D elastoplastic problems, Eng Anal Boundary Elements **21**(3) 271-275 (Apr 1998), 1A588
Computerized method for rigid-plastic yield-line analysis of slabs, Comput Struct **68**(6) 601-612 (Sep 1998), 1A589
General framework for the numerical solution of problems in finite elastoplasticity, Comput Methods Appl Mech Eng **159**(1-2) 1-18 (Jul 1998), 1A590
Implicit integration scheme for generalized viscoplasticity with dynamic recovery, Comput Mech **21**(6) 429-440 (Jun 1998), 1A591
Multi-grid enhanced GMRES algorithm for elastoplastic problems, Int J Numer Methods Eng **42**(8) 1441-1462 (Aug 1998), 1A592
Numerical analysis of limit load and reference stress of defective pipelines under multi-loading systems, Int J Pressure Vessels Piping **75**(2) 105-114 (Feb 1998), 1A593
Numerical aspects of a non-proportional cycle plasticity model under plane stress conditions, Int J Numer Methods Eng **42**(8) 1477-1498 (Aug 1998), 1A594
Numerical simulations of dynamic plastic shear instability under conditions of plane strain, Int J Solids Struct **35**(28-29) 3755-3791 (Oct 1998), 1A595
Rigid-plastic FEM equations based on void-damage theory (Chinese), J Shanghai Jiaotong Univ **32**(5) 10-13 (May 1998), 1A596
Applications of 2D elastoplastic stochastic FEM in the field of fracture mechanics, Int J Pressure Vessels Piping **75**(4) 281-286 (Apr 1998), 1A907
Mixed strain element method for pressure-dependent elastoplasticity at moderate finite strain, Int J Numer Methods Eng **43**(1) 111-129 (Sep 1998), 2A648
Nonlinear FE analysis based on a large strain deformation theory of plasticity, Comput Struct **69**(1) 117-128 (Oct 1998), 2A649
Global numerical analysis of elasto-plastic frames, Comput Assisted Mech Eng Sci **5**(1) 93-100 (1998), 2T976
Elastoplastic crack analysis of thick-walled cylinders using symmetric-iterative scheme of coupled BE and FE discretizations, Int J Pressure Vessels Piping **75**(6) 467-472 (May 1998), 3A25
Finite element application of an incremental endochronic model to flexible pavement materials, Struct Eng and Mech **6**(7) 817-826 (Oct 1998), 3A46
Development of non-iterative self correcting solution (NONSS) method for the viscoplastic analysis with the Chaboche model, Int J Numer Methods Eng **43**(4) 621-654 (Oct 1998), 3A539
Effects of mechanical heterogeneity on plastic zones of welded three-point bend specimens, Int J Pressure Vessels Piping **75**(7) 575-580 (Jun 1998), 3A540
Error indicators and mesh refinements for FE-computations of elastoplastic deformations, Comput Mech **22**(3) 225-238 (Sep 1998), 3A541
Hybrid-Trefftz stress elements for elastoplasticity, Int J Numer Methods Eng **43**(4) 655-683 (Oct 1998), 3A542
Improved inner point stress integral equation and its application in 2D elastoplastic problems, Eng Anal Boundary Elements **22**(2) 133-139 (Sep 1998), 3A543
Inverse computational method for constitutive parameters obtained from torsion, plane-strain and axisymmetric compression tests, J Mat Processing Tech **83**(1-3) 62-71 (Nov 1998), 3A544
Quick computation of factor of safety for biaxial stress states, J Mech Des **120**(4) 721-726 (Dec 1998), 3A545
Solutions of elastic-plastic problems with contact-type boundary conditions for solids with loss-of-strength zones, J Appl Math Mech **62**(2) 281-288 (1998), 3A546
Dugdale-Barenblatt model for a plane stress semi-infinite crack under mixed mode concentrated forces, Int J Fracture **88**(2) 153-166 (1997), 3A799
Advanced hyperspace division method and application for plastic reliability analysis (Japanese), Proc JSCE **598**(I-44) 269-285 (Jul 1998), 3A890
Computational Inelasticity (Springer-Verlag, New York, 1998) 4R6
Finite element modeling of the interaction of residual stress with mechanical load for a crack emanating from a cold worked fastener hole, J Strain Anal Eng Des **33**(4) 275-289 (Jul 1998), 4A24
Finite element implementation of gradient plasticity models - Part I: Gradient-dependent yield functions, Comput Methods Appl Mech Eng **163**(1-4) 11-32 (Sep 1998), 4A579
Finite element implementation of gradient plasticity models - Part II: Gradient-dependent evolution equations, Comput Methods Appl Mech Eng **163**(1-4) 33-53 (Sep 1998), 4A580
Modeling plasticity in finite bodies containing stress concentrations by a distributed dislocation method, J Strain Anal Eng Des **33**(4) 315-326 (Jul 1998), 4A581
SMA pseudoelastic finite strains: Theory and numerical application, J Eng Mat Tech **121**(1) 44-47 (Jan 1999), 4A582
Elastic-plastic stresses in a rotating solid disk, Int J Mech Sci **41**(3) 269-282 (Mar 1999), 4A658
Numerical implementation of an implicit BEM scheme with the consistent tangent operator in axisymmetric elastoplasticity, Int J Pressure Vessels Piping **75**(11) 827-830 (Sep 1998), 5A60
Extremum properties of finite-step solutions in elastoplasticity, Int J Solids Struct **36**(2) 185-218 (Jan 1999), 5A467
Applications of iterative elastic techniques for elastic-plastic analysis of pressure vessels, J Pressure Vessel Tech **121**(1) 24-29 (Feb 1999), 5A488
Iterative method for nonlinear variational inequalities arising in elastoplasticity, Numer Functional Anal Optimization **19**(9-10) 949-959 (1998), 5A489
Numerical implementation of a CTO-based implicit approach for the BEM solution of usual and sensitivity problems in elastoplasticity, Eng Anal Boundary Elements **22**(4) 257-269 (Dec 1998), 5A490
Parallel algorithm for elastoplastic structures (Chinese), Chinese J Comput Mech **15**(4) 387-394 (Nov 1998), 5T491
Simulation of viscoelastic fluids: Couette-Taylor flow, J Comput Phys **147**(1) 22-59 (Nov 1998), 5A960
Hypersingular formulation for boundary strain evaluation in the context of a CTO-based implicit BEM scheme for small strain elastoplasticity, Int J Plasticity **14**(10-11) 1033-1058 (1998), 6A67
General approach to the evaluation of consistent tangent operators for rate-independent elastoplasticity, Comput Methods Appl Mech Eng **167**(1-2) 75-89 (Dec 1998), 6A580
IDENT 1D: A novel software tool for an easy identification of material constitutive parameters, Nucl Eng Des **186**(3) 343-352 (Dec 1998), 6A581
Improved iterative method for large strain viscoplastic problems, Int J Numer Methods Eng **44**(2) 155-176 (Jan 1999), 6A582
Yield strength predictions from the plastic zone around nanocontacts, Acta Mat **47**(1) 333-343 (Dec 1998), 6A583
Optimally-controlled strain-rate dies for plane-strain extrusion, J Mat Processing Tech **86**(1-3) 56-66 (Feb 1999), 6A789
Efficient procedure for modeling limited plastic flow, Proc Inst Mech Eng C **212**(C8) 731-740 (1998), 6A965
Computational aspects of incrementally objective algorithms for large deformation plasticity, Int J Numer Methods Eng **44**(6) 839-851 (Feb 1999), 7A518
General algorithm for plastic flow simulation by FE limit analysis, Int J Solids Struct **36**(8) 1193-1207 (Mar 1999), 7A519
Initial stress formulation for elastoplastic analysis by improved multiple-reciprocity BEM, Eng Anal Boundary Elements **23**(2) 167-173 (Feb 1999), 7A520
Curved parametric segments for the stress field of 3D dislocation loops, J Eng Mat Tech **121**(2) 136-142 (Apr 1999), 8A562
Large displacement elastoplastic analysis of space trusses as a mathematical programming problem, Int J Space Struct **13**(3) 127-136 (1998), 8A563
Mixed FE model for plane strain limit analysis computations, Commun Numer Methods Eng **15**(2) 101-112 (Feb 1999), 8A564
Stress-based FE analysis of plane plasticity problems, Int J Numer Methods Eng **44**(10) 1505-1525 (Apr 1999), 8A565
Numerical schemes for defining reference stress in components containing defects, Int J Pressure Vessels Piping **76**(2) 127-131 (Feb 1999), 8A813
Analytical solution for the plane strain inclusion problem of an elastic power-law hardening matrix containing an elastic cylindrical inclusion, Int J Pressure Vessels Piping **76**(5) 291-297 (Apr 1999), 9A620
Critical polyhedrons for BCC and HCP materials, Int J Plasticity **15**(2) 209-222 (1999), 9A621
Distortion of U-channel sections in plastic bending, J Manuf Sci Eng **121**(2) 208-213 (May 1999), 9A622
Efficient integration technique for generalized viscoplasticity coupled to damage, Int J Numer Methods Eng **44**(11) 1727-1747 (Apr 1999), 9A623
Error estimates of numerical solutions for a cyclic plasticity problem, Comput Mech **23**(1) 33-38 (Feb 1999), 9A624
Variational approach to analyzing laminates with cracks and viscoplasticity: The model and its validation, J Composite Mat **33**(5) 443-479 (1999), 9A625
Dynamic elastic-plastic analysis by a symmetric Galerkin BEM with time-independent kernels, Comput Methods Appl Mech Eng **171**(3-4) 281-308 (Apr 1999), 10A76
Construction of solution of a plane problem for the complex medium with the unknown boundary (Russian), Prikl Mekh (Appl Mech) **34**(11) 66-77 (1998), 10A582
Adaptive numerical analysis in primal elastoplasticity with hardening, Comput Methods Appl Mech Eng **171**(3-4) 175-204 (Apr 1999), 10A602
Application of modern time integrators to Hart's inelastic model, Int J Plasticity **15**(6) 647-666 (1999), 10A603
Computational homogenization analysis in finite plasticity: Simulation of texture development in polycrystalline materials, Comput Methods Appl Mech Eng **171**(3-4) 387-418 (Apr 1999), 10A604
Conditions for locking-free elasto-plastic analyses in the Element-Free Galerkin method, Comput Methods Appl Mech Eng **173**(1-2) 99-109 (Apr 1999), 10A605
Convergence analysis of discrete approximations of problems in hardening plasticity, Comput Methods Appl Mech Eng **171**(3-4) 327-340 (Apr 1999), 10A606
Deviatoric map: A simple tool in design by analysis, Int J Pressure Vessels Piping **76**(6) 339-344 (May 1999), 10A607
New computational model for Tresca plasticity at finite strains with an optimal parametrization in the principal space, Comput Methods Appl Mech Eng **171**(3-4) 463-489 (Apr 1999), 10A608
One method of solving linear viscoelastic theory problems for anisotropic ageing materials (Russian), Prikl Mekh (Appl Mech) **34**(11) 60-65 (1998), 10A609
Reformulation of the exponential algorithm for finite strain plasticity in terms of cauchy stresses, Comput Methods Appl Mech Eng **173**(1-2) 167-187 (Apr 1999), 10A610
Shape sensitivity in elasto-plastic computations, Comput Methods Appl Mech Eng **171**(3-4) 371-386 (Apr 1999), 10A611
Variational formulation of viscoplastic constitutive updates, Comput Methods Appl Mech Eng **171**(3-4) 419-444 (Apr 1999), 10A612
Axisymmetric tube extrusion through a smooth conical or cosine die and over a conical or ogival mandrel: Numerical construction of axisymmetric slip-line fields and associated velocity fields, Int J Mech Sci **41**(10) 1191-1215 (Oct 1999), 10A794
Handbook of Numerical Analysis, Volume VI: Numerical Methods for Solids (Part 3), Numerical Methods for Fluids (Part 1) (Elsevier Sci, New York, 1998) 11N9
Analysis of the shape rolling of a V-sectioned sheet by the dual-stream function method, J Mat Processing Tech **88**(1-3) 33-42 (Apr 1999), 11A681
Disc upsetting between spherical dies and its application to the determination of forming limit curves, J Strain Anal Eng Des **34**(1) 17-22 (Jan 1999), 11A682
Proceedings of the 4th Pacific Conference on Material Processing: Singapore May 19-20, 1999, J Mat Processing Tech **89-90** 1-591 (May 1999), 11T686
Design of hydrodynamically lubricated journal bearings against yield, J Strain Anal Eng Des **34**(3) 165-173 (May 1999), 11A990
Computer Simulation of Dynamic Phenomena (Springer-Verlag, Berlin, 1998) 12R23
Efficient and reliable analysis of structural collapse by using a DQFEM along with a GSR-based accelerated equilibrium iteration procedure, Int J Pressure Vessels Piping **76**(7) 411-420 (Jun 1999), 12A33
Eulerian FE simulations of experimentally acquired HMX microstructures, Model Simulation Mat Sci Eng **7**(3) 333-354 (May 1999), 12A34
Convergence issues in molecular dynamics simulations of highly entropic materials, Model Simulation Mat Sci Eng **7**(3) 383-395 (May 1999), 12A603
Higher-order time integration method for viscoplasticity, Comput Methods Appl Mech Eng **175**(1-2) 1-18 (Jun 1999), 12A604
Incremental FE procedure for cumulative damage of 2D continua via two-surface plasticity, Comput Model Simul in Eng **4**(2) 143-149 (May 1999), 12A605
Lorentz group SO_0 (5,1) for perfect elastoplasticity with large deformation and a consistency numerical scheme, Int J Non-Linear Mech **34**(6) 1113-1130 (Nov 1999), 12A606
Numerical analysis of the primal problem of elastoplasticity with hardening, Numer Math **82**(4) 577-597 (Jun 1999), 12A607
Strip yield analysis on coalescence of plastic zones for multiple cracks in a riveted stiffened sheet, J Eng Mat Tech **121**(3) 352-359 (Jul 1999), 12A825

254Z. Experimental techniques

Elevated temperature hardening of INCONEL 690, Mech Mat **30**(1) 69-81 (Sep 1998), 1A569
Evaluation of elasto-plastic interfacial fracture parameters in solder-copper bimaterial using moire interferometry, J Electron Packaging **120**(3) 267-274 (Sep 1998), 1A579
Estimation of the local mechanical properties of pipeline steels and welded joints by use of the microshear test method, Int J Pressure Vessels Piping **75**(1) 37-42 (Jan 1998), 1A597
Ultrasonic NDE of microstructural changes of solid materials under plastic deformation - Part I: Theory, Int J Plasticity **14**(6) 511-522 (1998), 1A932
Ultrasonic NDE of microstructural changes of solid materials under plastic deformation - Part II: Experiment and simulation, Int J Plasticity **14**(6) 523-535 (1998), 1A933
New approaches to improve the RPV materials data base, Nucl Eng Des **183**(1-2) 1-8 (Jul 1998), 1A1468
Experimental study of regularities of plastic deformation of metals along plane curvilinear trajectories (Russian), Prikl Mekh (Appl Mech) **33**(7) 65-71 (1997), 2T650
Microbend test method for measuring the plasticity length scale, Acta Mat **46**(14) 5109-5115 (Sep 1998), 3A547
Role of material and test inhomogeneities in determining superplastic ductility, Acta Mat **46**(15) 5533-5540 (Sep 1998), 3A548
Thermographic analysis of localization mechanisms in mild steels, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 345-352 (Jun 1998), 3A549
Experimental study on the scaling of plate cutting, Int J Impact Eng **21**(8) 645-662 (Sep 1998), 4A231
Moment-curvature measurement in thin sheet - Part I: Equipment, Int J Mech Sci **41**(3) 249-260 (Mar 1999), 4A583
Moment-curvature measurement in thin sheet - Part II: Yielding and kinking in aged steel sheet, Int J Mech Sci **41**(3) 261-267 (Mar 1999), 4A584
Small punch tests to estimate the mechanical properties of steels for steam power plant - I: Mechanical strength, Int J Pressure Vessels Piping **75**(9) 699-706 (Aug 1998), 4A585
Small punch tests to estimate the mechanical properties of steels for steam power plant - II: Fracture toughness, Int J Pressure Vessels Piping **75**(9) 707-713 (Aug 1998), 4A586
Study of residual stress distribution by a combined method of Moire interferometry and incremental hole drilling - Part I: Theory, J Appl Mech **65**(4) 837-843 (Dec 1998), 5A479
Study of residual stress distribution by a combined method of moire interferometry and incremental hole drilling - Part II: Implementation, J Appl Mech **65**(4) 844-850 (Dec 1998), 5A480
Hybrid method for determining the fraction of plastic work converted to heat, Exp Mech **38**(4) 295-302 (Dec 1998), 5A492
Novel technique for plane-strain tension testing of sheet metals, J Mat Processing Tech **86**(1-3) 237-244 (Feb 1999), 6A584
Experimental investigation of size effects of FCC polycrystal by shear banding, J Eng Mat Tech **121**(2) 156-161 (Apr 1999), 8A566
Investigation on mechanism of plastic deformation by digital speckle pattern interferometry, Exp Mech **39**(1) 25-29 (Mar 1999), 8A567
Orientation imaging microscopy investigation of the compression deformation of a [011] Ta single crystal, J Eng Mat Tech **121**(2) 178-181 (Apr 1999), 8A568
Recovery experiments for adiabatic shear localization: A novel experimental technique, J Appl Mech **66**(1) 10-20 (Mar 1999), 8A569
Numerical simulation for the simple shear test in amorphous glassy polymers, Acta Mech Solida Sinica **12**(1) 36-42 (1999), 9A626

Determination of constitutive properties from spherical indentation data using neural networks - Part I: The case of pure kinematic hardening in plasticity laws, J Mech Phys Solids **47**(7) 1569-1588 (Jul 1999), 10A573
Determination of constitutive properties from spherical indentation data using neural networks - Part II: Plasticity with nonlinear isotropic and kinematic hardening, J Mech Phys Solids **47**(7) 1589-1607 (Jul 1999), 10A574
Yield criterion for powdered metal compaction, Appl Mech Eng **3**(3) 413-432 (1998), 10T613
Study of strain localization by means of reduced gage compression testing, J Mat Processing Tech **88**(1-3) 276-283 (Apr 1999), 11A508
Observation of the propagation of plastic strain in HSLA 80 steel, J Test Eval **27**(2) 85-88 (Mar 1999), 12A608

256. COMPOSITE MATERIAL MECHANICS

Reliability of composites in a random stress state, Composites Sci Tech **58**(6) 871-881 (Jun 1998), 1A598

256A. General theory

Mechanics of Composite Materials, Second Edition (Taylor & Francis, Philadelphia, PA, 1999) 1N20
Kinetics of stress relaxation caused by the combination of interfacial sliding and diffusion: Two-dimensional analysis, Acta Mat **46**(11) 3821-3828 (Jul 1998), 1A557
Effective stiffness tensor of composite media - II: Applications to isotropic dispersions, J Mech Phys Solids **46**(8) 1411-1440 (Aug 1998), 1A599
Fiber-matrix-composite model with a combined confocal elliptical cylinder unit cell for predicting the effective longitudinal shear modulus, Int J Solids Struct **35**(30) 3977-3987 (Oct 1998), 1A600
One decision method for the problem of 3D stability of laminar composites, Prikl Mekh (Appl Mech) **34**(3) 45-55 (1998), 1A601
Exact results concerning thermoelastic properties of hollow sphere composites, Appl Math Mech **19**(5) 427-435 (May 1998), 1A1374
IUTAM Symposium on Transformation Problems in Composite and Active Materials (Kluwer, Netherlands, 1998) 2N12
Progress in Durability Analysis of Composite Systems (Balkema, Rotterdam, Netherlands, 1998) 2N16
Modeling the production and performance analysis of plasma-sprayed ceramic thermal barrier coatings, Arch Comput Methods Eng 5(2) 59-166 (1998), 2A651
Mechanics of Composite Materials (CRC Press, Boca Raton FL, 1997) 3R15
Generalized self-consistent Mori-Tanaka model for predicting the effective moduli of the coated inclusion based composite materials, Acta Mech Solida Sinica **11**(3) 199-208 (1998), 3A494
Higher order subdomain method for finding local stress fields in composites, Int J Solids Struct **35**(36) 5189-5203 (Dec 1998), 3A550
Simplified methods for prediction of moisture diffusion in polymer matrix composites with cyclic environmental conditions, Polymers and Polymer Composites **6**(4) 189-203 (1998), 3A551
Advanced Multilayered and Fibre-Reinforced Composites (Kluwer, Netherlands, 1998) 4N12
Kink-band propagation in fiber composites, J Mech Phys Solids **46**(9) 1637-1653 (Sep 1998), 4A587
Micromechanical models for graded composite materials - Part II: Thermomechanical loading, J Mech Phys Solids **46**(9) 1655-1673 (Sep 1998), 4A588
Dynamic modeling and neural control of composite shells using piezoelectric devices, J Intelligent Mat Syst Struct **9**(1) 29-43 (Jan 1998), 4A655
Micromechanics versus macromechanics: A combined approach for metal matrix composite constitutive modeling, Eur J Mech A **17**(6) 885-908 (Nov-Dec 1998), 5A517
Introduction to Composite Materials Design (Taylor & Francis, Bristol PA, 1999) 6R15
Metal and Ceramic Based Composites (Elsevier Sci BV, Netherlands, 1997) 6R16
Stresses around pin-loaded hole in composite laminates using direct BEM, Int J Solids Struct **36**(5) 763-783 (Feb 1999), 6A524
Static fundamental solutions for a bi-material full-space, Int J Solids Struct **36**(4) 493-516 (Feb 1999), 6A585
Thermomechanical model for the analysis of light alloy solidification in a composite mold, Int J Solids Struct **36**(16) 2341-2378 (Jun 1999), 7A430
Interface dislocations between dissimilar materials with nonlinear stress-strain laws: Mode 3 analysis, J Mech Phys Solids **47**(2) 351-369 (Feb 1999), 7A467
Research at the Korea Institute of Machinery and Materials and Center for Advanced Aerospace Materials, Adv Performance Mat 5(4) 265-361 (Dec 1998), 7A499
Contact behavior between laminated composites and rigid impactors, Composite Struct **43**(3) 165-178 (Nov 1998), 7A521
Modeling of adaptive composites including debonding, Int J Solids Struct **36**(12) 1823-1843 (Apr 1999), 7A522
Unified model for piezocomposites with non-piezoelectric matrix and piezoelectric ellipsoidal inclusions, Int J Solids Struct **36**(18) 2707-2733 (Jun 1999), 8A570
Consistent derivation of the Timoshenko's beam theory, Struct Eng and Mech 7(5) 527-532 (May 1999), 9A627
Manufacturing and testing of thermoplastic composite high load hinge, J Thermoplastic Composite Mat **12**(2) 133-142 (Mar 1999), 9A628
Scale effects on the elastic behavior of periodic and hierarchical 2D composites, J Mech Phys Solids **47**(7) 1509-1542 (Jul 1999), 10A614
Simple elasticity solution for predicting interlaminar stresses in laminated composites, J Am Helicopter Soc **44**(2) 94-100 (Apr 1999), 10A615
Stress concentrations in composites with interface sliding, matrix stiffness and uneven fiber spacing using shear lag theory, Int J Solids Struct **36**(28) 4333-4361 (Oct 1999), 10A616
McNU '97, joint American Society for Mechanical Engineers, American Society of Civil Engineers and Society of Engineering Sciences summer meeting held at Northwestern University, June 29-July 2, 1997, J Intelligent Mat Syst Struct **9**(6) 404-486 (Jun 1998), 10A744
Composite Materials Handbook--MIL-17 (Technomic, Lancaster PA, 1999) 11N18
Composite Materials: Fatigue and Fracture, 7th Volume (ASTM, PA, 1998) 11N19
Simulated stiffness determination from simple compression tests on a thick laminate, Composites Part A Appl Sci and Manuf **30A**(7) 849-858 (1999), 11A42
Uniform strain fields and microstructure-independent relations in nonlinear elastic fibrous composites, J Mech Phys Solids **47**(8) 1781-1793 (Aug 1999), 11A509
Variational methods, bounds and size effects for two-phase composites with coupled heat and mass transport processes at the two-phase interface, J Mech Phys Solids **47**(8) 1699-1736 (Aug 1999), 11A510
Comprehensive Composite Materials (Elsevier, Oxford, UK, 2000) 12N14
Homogenization theory for time-dependent nonlinear composites with periodic internal structures, Int J Solids Struct **36**(33) 4991-5012 (Nov 1999), 12A609
Influence of moduli slope of a linearly graded matrix on the bulk moduli of some particle- and fiber-reinforced composites, J Elast **53**(1) 1-22 (1998), 12A610
Neutral inhomogeneities in conduction phenomena, J Mech Phys Solids **47**(9) 1873-1892 (Sep 1999), 12A1356

256B. Particulate media, incl cements

Air cooling of concrete by means of embedded cooling pipes - Part II: Application in design, Mat Struct **31**(210) 387-392 (Jul 1998), 1A602
Continuum model for grain junctions in polycrystalline aggregate, Mech Mat **30**(1) 31-40 (Sep 1998), 1A603
Design of particle reinforced heat conducting composites with interfacial thermal-barriers, J Composite Mat **32**(14) 1322-1331 (1998), 1A604
Effective elastic constants of particulate composites with inhomogeneous interphases, J Composite Mat **32**(15) 1391-1424 (1998), 1A605
Hygrothermal and mechanical model of concrete at high temperature, Mat Struct **31**(210) 378-386 (Jul 1998), 1A606
Manufacturing and mechanical properties of glass bubbles-epoxy particulate composite, J Composite Mat **32**(15) 1356-1390 (1998), 1A607
Thermal expansion of particle-filled plastic encapsulant: A micromechanical characterization, Acta Mat **46**(12) 4287-4302 (Jul 1998), 1A608
Accelerated aging processes in SiC-7020 aluminium composite, J Mat Processing Tech **79**(1-3) 1-8 (Jul 1998), 1A805
Influence of low-intensity shot peening on the fatigue strength of an Al-Al_2O_3 composite material, Fatigue Fracture Eng Mat Struct **21**(6) 717-726 (1998), 1A832
Thermal expansion behavior of particulate metal-matrix composites, Composites Sci Tech **58**(3-4) 369-376 (Mar-Apr 1998), 1A1376
Thermomechanically induced residual strains in Al-SiC_p metal-matrix composites, Composites Sci Tech **58**(3-4) 345-353 (Mar-Apr 1998), 1A1377
Deformation build up within a granular assemblage during an intense earthquake, J Earthquake Eng **2**(3) 419-441 (Jul 1998), 2A652
Evaluation of strains at peak stresses in concrete: A three-phase composite model approach, Cement & Concrete Composites **20**(4) 301-318 (1998), 2A653
Particle size analysis of basalt dust, Fibres Textiles in E Europe **6**(1) 70-72 (Jan-Mar 1998), 2T654
Net shape forming of electromagnetically elaborated semisolid metal matrix composites, Sci Eng Comp Mat 7(3) 223-229 (1998), 2A808
Nature of bonding between monofilament polyethylene yarns and cement matrices, Cement & Concrete Composites **20**(4) 319-327 (1998), 2A1051
Prediction of tensile yield strength of rigid inorganic particulate filled thermoplastic composites, J Mat Processing Tech **83**(1-3) 127-130 (Nov 1998), 3A552
Machining of Al-SiC particulate metal-matrix composites - Part I: Tool performance, J Mat Processing Tech **83**(1-3) 151-158 (Nov 1998), 3A702
Machining of Al-SiC particulate metal matrix composites - Part II: Workpiece surface integrity, J Mat Processing Tech **83**(1-3) 277-285 (Nov 1998), 3A703
Sixth international symposium on ferrocement, J Ferrocement **28**(3) 221-291 (Jul 1998), 3T901
Effect of elastic inhomogeneity on equilibrium and stability of a two particle morphology, Mech Mat **30**(3) 181-196 (Nov 1998), 4A589
Effect of time and temperature on the flexural strength of a silica particle filled epoxy resin, J Composite Mat **32**(20) 1836-1864 (1998), 4A590
Influence of particle volume fraction, shape, and aspect ratio on the behavior of particle-reinforced metal-matrix composites at high rates of strain, Acta Mat **46**(16) 5633-5646 (Oct 1998), 4A591
Interaction between a crack and a particle cluster, Int J Fracture **88**(3) 215-232 (1998), 4A821
Finite element modeling of deformation in particulate reinforced metal matrix composites with random local microstructure variation, Acta Mat **46**(17) 6075-6088 (Nov 1998), 5A493
Identification of effective properties of particle reinforced composite materials, Comput Mech **22**(4) 317-325 (Oct 1998), 5A494
SiC particle reinforced oxynitride glass: Stress relaxation, creep and strain-rate imposed experiments, Acta Mat **46**(17) 6115-6130 (Nov 1998), 5A495
Crack face interaction and mixed mode fracture of wood composites during mode III loading, Eng Fracture Mech **61**(2) 253-278 (Sep 1998), 5A726
Mixing behavior of the weld pool during GTA welding of aluminium-matrix composites, Sci Eng Comp Mat 7(4) 323-327 (1998), 5A878
Biomaterials: Part 2, Proc Inst Mech Eng H **212**(H6) 399-500 (1998), 5A1573
Effective moduli of composite reinforced by spherical coating particles, Appl Math Mech **19**(10) 997-1006 (Oct 1998), 6A586
Functionally graded particulate composite: Preparation, measurements and failure analysis, Acta Mat **47**(1) 259-268 (Dec 1998), 6A587
Modeling and empirical formulas for chemical corrosion and stress corrosion of cementitious materials, Mat Struct **31**(214) 662-668 (Dec 1998), 6A588
New test method to evaluate the impact behavior of biaxially confined concrete, Mat Struct **31**(214) 669-675 (Dec 1998), 6A589
Numerical analysis of hygro-thermal behavior and damage of concrete at high temperature, Mech Cohesive-Frictional Mat **4**(1) 37-74 (Jan 1999), 6A590
Viscoelastic constitutive modeling of asphalt concrete with growing damage, Struct Eng and Mech 7(2) 225-240 (Feb 1999), 6A591
Fabrication of metal matrix composite by infiltration process - Part 2: Experimental study, J Mat Processing Tech **86**(1-3) 152-158 (Feb 1999), 6A826
Influence of particle size and volume fraction on damage and fracture in Al-Al_3Ti composites and micromechanical modeling using the GTN model, Fatigue Fracture Eng Mat Struct **21**(10) 1189-1201 (1998), 6A931
Three-dimensional solution and experimental confirmation for the electric resistivity testing of surface-breaking defects in green-state powder metallurgy compacts, J Nondestruct Eval **17**(3) 153-166 (Sep 1998), 6A1004
Strength of porous material: Simple systems and densified systems, Mat Struct **31**(214) 651-661 (Dec 1998), 6A1005
Deformation behavior of particle-strengthened alloys: A Voronoi mesh approach, Acta Mat **47**(2) 595-606 (Jan 1999), 7A523
Inverse problem analysis for the determination of probabilistic parameters of concrete behavior modeled by a statistical approach, Mat Struct **32**(215) 9-13 (Jan-Feb 1999), 7A524
Structure and bending properties of squeeze-cast composites of A356 aluminium alloy reinforced with alumina particles, Composites Sci Tech **59**(1) 157-162 (Jan 1999), 7A525
Low-cycle fatigue behavior of a particulate SiC-2024Al composite at ambient and elevated temperature, Composites Sci Tech **59**(1) 147-155 (Jan 1999), 7A699
Development of a multiple linear regression model for predicting the 28-day compressive strength of Portland pozzolan cement, Mat Struct **32**(216) 98-102 (Mar 1999), 8A571
Particulate refinement and redistribution during the axisymmetric compression of an Al-SiC_p metal matrix composite, Composites Part A Appl Sci and Manuf **30A**(3) 203-211 (1999), 8A572
Performance of aluminium-matrix composites with nanometric particulate Si-N-C reinforcement, Composites Sci Tech **59**(2) 263-270 (Feb 1999), 8A573
Viscoplastic compaction of composite powders, J Mech Phys Solids **47**(4) 785-815 (Apr 1999), 8A574
Simulation study on the effects of particle size on the consolidation of polymer powder impregnated tapes, Composites Part A Appl Sci and Manuf **30A**(3) 325-337 (1999), 8A718
Subcritical crack growth in a composite solid propellant, J Reinforced Plastics Composites **18**(3) 233-250 (1999), 8A798
Steady-state constitutive relationship for idealized asphalt mixes, Mech Mat **31**(4) 271-287 (Apr 1999), 9A4
Accurate and efficient tangential force-displacement model for elastic frictional contact in particle-flow simulations, Mech Mat **31**(4) 235-269 (Apr 1999), 9A580
Effect of particulate size on the microstructural evolution, aging behavior and mechanical properties of Al-4.5Cu-Sic composite, High Temp Mat Proc **18**(3) 131-143 (Feb 1999), 9A629
Modeling cement microstructure: Pixels, particles, and property prediction, Mat Struct **32**(217) 187-195 (Apr 1999), 9A630
Fracture characteristics of SiC particle reinforced oxynitride glass using chevron-notch three-point bend specimens, Int J Fracture **91**(1) 83-101 (1998), 9A885
Theoretical analysis on the local critical stress and size effect for interfacial debondng in particle reinforced rheological materials, Acta Mech Solida Sinica **12**(1) 1-8 (1999), 9A894
Thermal shock cracking in a metal-particle-reinforced ceramic matrix composite, Eng Fracture Mech **62**(4-5) 339-350 (Mar 1999), 9A1431
Computer experiment on superposition of strengthening effects of different particles, Acta Mat **47**(6) 1713-1721 (Apr 1999), 10A617
Effective thermoelastic properties of graded doubly periodic particulate matrix composites in varying external stress fields, Int J Solids Struct **36**(25) 3861-3885 (Sep 1999), 10A618
Effects of hot extrusion through a curved die on the mechanical properties of SiC_p\Al composites fabricated by melt-stirring, Composites Sci Tech **59**(5) 643-654 (Apr 1999), 10A619
Elasticity and plasticity of dilatant granular materials, J Mech Phys Solids **47**(6) 1397-1408 (Jun 1999), 10A620
Study on analysis method for composite pavement based on elastic plate FEM (Japanese), Proc JSCE **613**(V-42) 237-247 (Feb 1999), 10A621
Triply periodical particulate matrix composites in varying external stress fields, Int J Solids Struct **36**(25) 3837-3859 (Sep 1999), 10A622
Multiscale modeling of the damaged plastic behavior and failure of Al-SiCp composites, Int J Plasticity **15**(6) 667-685 (1999), 10A915
Thermal stresses in functionally graded material of particle-reinforced composite, JSME Int J Ser A **41**(2) 178-184 (Apr 1998), 10A1398
High-temperature creep behavior of powder-metallurgy aluminium composites reinforced with SiC particles of various sizes, Composites Sci Tech **59**(7) 1117-1125 (May-Jun 1999), 11A480
Aging mechanisms in cellulose fiber reinforced cement composites, Cement & Concrete Composites **21**(3) 189-196 (1999), 11A511
Effect of particle size of sand in mortar and bed joint thickness on compressive strength of brick masonary, J Struct Eng (India) **25**(2) 145-147 (Jul 1998), 11T512
Effect of SiC particles on the size and morphology of eutectic silicon in cast A356-SiC_p composites, Composites Sci Tech **59**(6) 897-902 (May 1999), 11A513
Interparticle forces distribution in granular materials: Link with the macroscopic behavior, Mech Cohesive-Frictional Mat **4**(3) 247-279 (May 1999), 11A514
Modeling the large deformations in stratified media: The Cosserat continuum approach, Mech Cohesive-Frictional Mat **4**(3) 195-213 (May 1999), 11A515
Structured deformation in granular materials, Mech Mat **31**(6) 407-429 (Jun 1999), 11A516
Accelerated aging characteristics of glass-fiber reinforced cement made with new cementitious matrices, Composites Part A Appl Sci and Manuf **30A**(9) 1073-1080 (1999), 12A611
Tri-particle model of sandwich panels, Composites Sci Tech **59**(8) 1195-1206 (Jun 1999), 12A612
Effect of particle size on fatigue behavior in SiC particulate - Reinforced aluminium alloy composites, Fatigue Fracture Eng Mat Struct **22**(4) 281-288 (Apr 1999), 12A765

256D. Carbon fiber reinforced media

Nonlinear viscoelastic behavior of polymer-matrix composites, Composites Sci Tech **58**(6) 883-889 (Jun 1998), 1A551
Analysis of impact threshold energy for carbon fiber and fabric reinforced composites, J Reinforced Plastics Composites **17**(12) 1056-1075 (1998), 1A609
Carbon-fiber-reinforced YMAS glass-ceramic-matrix composites - IV: Thermal residual stresses and fiber-matrix interfaces, Composites Sci Tech **58**(3-4) 409-418 (Mar-Apr 1998), 1A610
Effect of carbon fiber direction of unidirectionally reinforced epoxy composites on frictional behavior (Japanese), J Soc Mat Sci Japan **47**(6) 618-624 (Jun 1998), 1A611
Effect of stress concentration on tensile fracture behavior of carbon-carbon composites, J Composite Mat **32**(13) 1273-1294 (1998), 1A612
Production and assessment of polycarbonate composites reinforced with vapor-grown carbon fibers, Composites Sci Tech **58**(3-4) 401-407 (Mar-Apr 1998), 1A613
Effect of support conditions on the performance of CFRP plates subjected to biaxial flexure, Composites Sci Tech **58**(3-4) 613-621 (Mar-Apr 1998), 1A681
Effects of moisture and temperature on the interlaminar delamination toughness of a carbon-epoxy composite, Composites Sci Tech **58**(6) 967-977 (Jun 1998), 1A884
Effects of stitching in CFRPs - I: Mode I delamination toughness, Composites Sci Tech **58**(6) 815-827 (Jun 1998), 1A885
Effects of stitching in CFRPs - II: Mode II delamination toughness, Composites Sci Tech **58**(6) 829-837 (Jun 1998), 1A886
Long-term thermo-oxidative aging in composite materials: Failure mechanisms, Composites Sci Tech **58**(3-4) 355-368 (Mar-Apr 1998), 1A892
Rate dependence of mode I fracture behavior in carbon-fiber and epoxy composite laminates, Composites Sci Tech **58**(3-4) 591-602 (Mar-Apr 1998), 1A895
Tensile damage in a symmetric $[0/90]_{2s}$ silicon-carbide fiber-reinforced titanium-matrix composite, Composites Sci Tech **58**(6) 915-931 (Jun 1998), 1A899
Estimation of impact-induced damage in CFRP laminates through ultrasonic imaging, NDT&E Int **31**(5) 359-374 (Oct 1998), 1A930
Application of a 3D heat flow model to treat laser drilling of carbon fiber composites, Acta Mat **46**(12) 4273-4285 (Jul 1998), 1A1285
Fibrous Materials (Cambridge UP, UK, 1998) 2R9
Effect of coupling treatment of carbon fiber surface on mechanical properties of carbon fiber reinforced carbon composites, Composites Part A Appl Sci and Manuf **29A**(8) 965-972 (1998), 2A655
Fatigue damage characterization in carbon fiber composite materials using an electrical potential technique, Smart Mat Struct **7**(4) 456-466 (Aug 1998), 2A656
Spring-in study of the aileron rib manufactured from advanced thermoplastic composite, Composites Part A Appl Sci and Manuf **29A**(8) 973-979 (1998), 2A809
Fatigue life prediction of titanium matrix composites under mission spectrum loading, J Composite Tech Res **20**(3) 179-186 (Jul 1998), 2A833
Work-of-fracture of SiC-whisker reinforced Al_2O_3 composite at elevated temperatures, Sci Eng Comp Mat **7**(3) 231-238 (1998), 2A883
Acoustic emission from CFRP laminates during fatigue loading, J Reinforced Plastics Composites **17**(13) 1185-1201 (1998), 2A910
Adhesively-bonded repairs to fiber-composite materials - I: Experimental, Composites Part A Appl Sci and Manuf **29A**(11) 1371-1381 (1998), 3A553
Adhesively-bonded repairs to fiber-composite materials - II: FE modeling, Composites Part A Appl Sci and Manuf **29A**(11) 1383-1396 (1998), 3A554
Deep drawing of fabric reinforced thermoplastics: Maximum drawing depth and mechanism of wrinkle formation, Polymers and Polymer Composites **6**(4) 215-222 (1998), 3A555
Mechanical properties and failure behavior of cylindrical CFRP-implant-rods under torsion load, Composites Part A Appl Sci and Manuf **29A**(11) 1453-1461 (1998), 3A556
Microstructure and role of outermost coating for tensile strength of SiC fiber, Acta Mat **46**(14) 4941-4954 (Sep 1998), 3A557
Fatigue damage characterization in plain-weave carbon-carbon fabric reinforced plastic composites, J Reinforced Plastics Composites **17**(15) 1320-1337 (1998), 3A748
Large-scale bridging in composites: R-curves and bridging laws, Composites Part A Appl Sci and Manuf **29A**(11) 1443-1451 (1998), 3A818
Micromechanical characterization of local deformation in interlaminar-toughened CFRP laminates, Composites Part A Appl Sci and Manuf **29A**(12) 1545-1552 (1998), 4A592
Thermal expansion behavior of unidirectional carbon-fiber-reinforced copper-matrix composites, Composites Part A Appl Sci and Manuf **29A**(12) 1563-1567 (1998), 4A1412
Advances in research of CF-C composites, Sci Eng Comp Mat **7**(4) 333-340 (1998), 5A496
Compressive performance of carbon fibers: Experiment and analysis, Composites Sci Tech **58**(10) 1649-1658 (Oct 1998), 5A497
Investigation of damage surface in CFRP under biaxial loading (Japanese), J Soc Mat Sci Japan **47**(9) 905-911 (Sep 1998), 5A498
Study of the interlaminar fracture toughness of a carbon-fiber and epoxy composite containing surface-modified short Kevlar fibers, Composites Sci Tech **58**(10) 1599-1606 (Oct 1998), 5A499
Damage and failure mechanisms of a 3-directional carbon-carbon composite under uniaxial tensile and shear loads, Acta Mat **46**(18) 6631-6643 (Nov 1998), 5A717
Experimental investigation of the shear strength of a unidirectional carbon-aluminum composite under dynamic torsional loading, Composites Sci Tech **58**(10) 1667-1673 (Oct 1998), 5A718
Interface molecular engineering of carbon-fiber composites, Composites Part A Appl Sci and Manuf **30A**(1) 49-57 (1999), 6A592
Delamination fracture of multidirectional carbon-fiber and epoxy-composites under Mode I, Mode II and Mixed-Mode I-II loading, J Composite Mat **33**(1) 73-100 (1998), 6A923
Influence of fiber surface properties on the mode of failure in carbon-fiber and epoxy composites, Composites Sci Tech **58**(12) 1917-1922 (Dec 1998), 6A930
Reduction of fiber pull-out stress due to hot water immersion: Carbon-PEEK, J Thermoplastic Composite Mat **12**(1) 33-45 (Jan 1999), 6A937
Compressive and flexural behavior of ultra-high-modulus polyethylene fiber and carbon fiber hybrid composites, Composites Sci Tech **59**(1) 13-18 (Jan 1999), 7A526
Modeling of the stress-strain behavior of a carbon-carbon composite with a 2.5D fiber architecture under tensile and shear loads at room temperature, Composites Sci Tech **59**(1) 1-12 (Jan 1999), 7A527
Structure and mechanical properties of injection molded thin strip of carbon fiber reinforced liquid crystalline polymer (Japanese), J Soc Mat Sci Japan **47**(12) 1282-1286 (Dec 1998), 7A528
Damage accumulation in woven-fabric CFRP laminates under tensile loading - Part 1: Observations of damage accumulation, Composites Sci Tech **59**(1) 123-136 (Jan 1999), 7A741
Damage accumulation in woven-fabric CFRP laminates under tensile loading - 2: Modeling the effect of damage on macromechanical properties, Composites Sci Tech **59**(1) 137-145 (Jan 1999), 7A742
Carbon fiber polymer-matrix structural composite as semiconductor and concept of optoelectronic and electronic devices made from it, Smart Mat Struct **8**(1) 161-166 (Feb 1999), 8A575
Effects of strain rate on transverse tension properties of a carbon-epoxy composite: Studied by moire photography, Composites Part A Appl Sci and Manuf **30A**(3) 305-316 (1999), 8A576
Experimental study of resistance welding of carbon fiber fabric reinforced polyetherimide (CF fabric-PEI) composite material, Appl Composite Mat **6**(1) 35-49 (Jan 1998), 8A577
Finite-element analysis of a polymer composite subjected to ball indentation, Composites Sci Tech **59**(2) 271-281 (Feb 1999), 8A578
Mechanical performance of carbon-fiber- and glass-fiber-reinforced epoxy I-beams - III: Fatigue performance, Composites Sci Tech **59**(2) 179-200 (Feb 1999), 8A579
Modeling of carbon-carbon composite manufacturing processes, Composites Part A Appl Sci and Manuf **30A**(3) 221-230 (1999), 8A580
Design and fabrication of 3D multi-layer woven T-section reinforcements, Composites Part A Appl Sci and Manuf **30A**(3) 213-220 (1999), 8A715
Effects of delamination on the fatigue behavior of composite structures, J Composite Mat **33**(3) 267-303 (1999), 8A740
Effects of environment on the high-temperature strength of $ZrSiO_4$-matrix and SiC-fiber composites, Composites Sci Tech **59**(2) 253-262 (Feb 1999), 8A783
X-ray analysis of residual stresses in C-SiC composites, Appl Composite Mat **6**(1) 51-66 (Jan 1998), 8A819
Compression after impact testing of carbon fiber reinforced plastic laminates, J Composite Tech Res **21**(2) 51-64 (Apr 1999), 9A631
Compressive strength of hybrid composite tubes after low-energy impact, J Composite Tech Res **21**(2) 65-74 (Apr 1999), 9A632
Measured through-the-thickness thermal diffusivity of carbon fiber reinforced composite materials, J Composite Tech Res **21**(2) 98-102 (Apr 1999), 9A633
Suppression of splitting and impact sensitivity of unidirectional carbon-fiber composite rods using tensioned overwind, Composites Part A Appl Sci and Manuf **30A**(5) 661-665 (1999), 9A634
Influence of the laminate lay-up on the fatigue behavior of SiC-fiber and BMAS-matrix composites, Composites Part A Appl Sci and Manuf **30A**(5) 623-635 (1999), 9A811
Influence of processing on morphology, interface, and delamination in PEEK-carbon composites, J Thermoplastic Composite Mat **12**(2) 84-95 (Mar 1999), 9A887
Impact damage with compressive preload and post-impact compression of carbon composite plates, Int J Impact Eng **22**(5) 485-509 (May 1999), 10A276
Mechanical property distribution of CFRP filament wound composites, Composite Struct **45**(1) 41-50 (May 1999), 10A623
Fatigue of multiple-row bolted joints in carbon-epoxy laminates: Ranking of factors affecting strength and fatigue life, Int J Fatigue **21**(4) 337-353 (Apr 1999), 10A836
Fracture behaviors of CFRP laminates in mode I interlaminar fracture toughness testing, JSME Int J Ser A **41**(2) 225-230 (Apr 1998), 10A862
Mesoscopic fracture mechanism of mode II delamination fatigue crack propagation in interlayer-toughened CFRP, JSME Int J Ser A **40**(4) 423-429 (Oct 1997), 10A863
Experimental study on crack behavior of RC tensile members strengthened with carbon fiber sheets (Japanese), Proc JSCE **613**(V-42) 249-262 (Feb 1999), 10A989
Behavior of the physicomechanical properties of composites based on polymers and carbon fibers: A review, Composite Mech Des **3**(2) 82-92 (1997), 11A517
Influence of processing method on the fracture toughness of thermoplastic-modified, carbon-fiber-reinforced epoxy composites, Composites Sci Tech **59**(7) 995-1001 (May-Jun 1999), 11A518
Monotonic tension, fatigue and creep behavior of SiC-fiber-reinforced SiC-matrix composites: A review, Composites Sci Tech **59**(6) 833-851 (May 1999), 11A519
Oxidation-resistant carbon-fiber-reinforced ceramic-matrix composites, Composites Sci Tech **59**(7) 1073-1085 (May-Jun 1999), 11A520
Properties of polycarbosilane-derived silicon carbide fibers with various C-Si compositions, Composites Sci Tech **59**(6) 787-792 (May 1999), 11A521
Thermal stability of SiC fiber prepared by an irradiation-curing process, Composites Sci Tech **59**(6) 793-799 (May 1999), 11A522
Compressive damage of carbon fibers and their crystalline structures (Japanese), J Soc Mat Sci Japan **48**(3) 269-274 (Mar 1999), 11A771
In situ detection of damage in CFRP laminates by electrical resistance measurements, Composites Sci Tech **59**(6) 925-935 (May 1999), 11A852
Creep of carbon-polypropylene model composites: A Raman spectroscopic investigation, Composites Sci Tech **59**(9) 1375-1385 (Jul 1999), 12A613
Discussion of the contact behavior of a carbon-fiber composite for electric contact applications, Composites Sci Tech **59**(8) 1189-1194 (Jun 1999), 12A614
Effect of thermal cycling on the microstructure of continuous carbon fiber reinforced copper matrix composites, Composites Part A Appl Sci and Manuf **30A**(8) 1023-1026 (1999), 12A615
Weak link scaling analysis of high-strength carbon fiber, Composites Part A Appl Sci and Manuf **30A**(8) 1017-1021 (1999), 12A616
Buckling strength prediction of CFRP cylindrical panels using FEM, Composites Part A Appl Sci and Manuf **30A**(9) 1093-1104 (1999), 12A680
Effects of stacking sequence on microscopic fatigue damage development in quasi-isotropic CFRP laminates with interlaminar-toughened layers, Composites Sci Tech **59**(9) 1387-1398 (Jul 1999), 12A767
Corrosion studies on aluminium reinforced with uncoated and coated carbon fibers, Composites Sci Tech **59**(8) 1239-1245 (Jun 1999), 12A786
Compressive failure of 0° unidirectional carbon-fiber-reinforced plastic laminates by fiber microbuckling, Composites Sci Tech **59**(9) 1451-1455 (Jul 1999), 12A828
Notch sensitivity of carbon-epoxy fabric laminates, Composites Sci Tech **59**(8) 1143-1151 (Jun 1999), 12A834

256F. Other fiber reinforced media

Coating sequence effect for composites containing multiply coated long fibers, J Composite Mat **32**(13) 1306-1324 (1998), 1A614
Cutting behavior of composite prepregs, J Reinforced Plastics Composites **17**(12) 1119-1134 (1998), 1A615
Dependence of deformation properties of laminar-fibrous composites on the law of the binder strength distribution, Prikl Mekh (Appl Mech) **34**(3) 56-63 (1998), 1A616
Dependence of deformation properties of fibrous composite on the law of the binder strength distribution, Prikl Mekh (Appl Mech) **34**(2) 32-38 (1998), 1A617
Effect of width on the mechanical properties of angle-ply laminates, Composites Sci Tech **58**(3-4) 497-504 (Mar-Apr 1998), 1A618
Effects of the zone of components contact on the properties of unidirectional fibrous composites, Prikl Mekh (Appl Mech) **34**(1) 55-63 (1998), 1A619
Elastic modulus of misaligned short-fiber-reinforced polymers, Composites Sci Tech **58**(3-4) 389-400 (Mar-Apr 1998), 1A620
Fiber reinforcement of ceramic-polymer composites for a major load-bearing bone substitute material, Composites Sci Tech **58**(3-4) 419-434 (Mar-Apr 1998), 1A621
Fiber walk-out during small-amplitude oscillatory shear of continuous-fiber composites, Composites Sci Tech **58**(6) 855-869 (Jun 1998), 1A622
Interfacial bond conditions and stress distribution in a 2D reinforced brittle-matrix composite, Composites Sci Tech **58**(3-4) 313-330 (Mar-Apr 1998), 1A623
Modeling nonlinear rate-dependent behavior in fiber-reinforced composites, Composites Sci Tech **58**(3-4) 603-611 (Mar-Apr 1998), 1A624
Packing model for bimodal particle packing with aligned fibers, J Mat Processing Tech **79**(1-3) 170-176 (Jul 1998), 1A625
Prediction of elastic properties of fiber-reinforced unidirectional composites, Eng Anal Boundary Elements **21**(3) 235-244 (Apr 1998), 1A626
Response of fiber-reinforced polymers to high strain-rate loading in interlaminar tension and combined tension-shear, Composites Sci Tech **58**(6) 987-996 (Jun 1998), 1A627
Tensile strength of composites reinforced with dispersed fibers determination of reinforcement, Eng Trans **45**(3-4) 533-537 (1997), 1A628
Local buckling of fiber-reinforced polymeric structural members under linearly-varying edge loading - Part 1: Theoretical formulation, Composite Struct **41**(1) 79-86 (Jan 1998), 1A646
Selected papers presented at the Fifth International Conference on automated composites, Glasgow, UK: September 4-5 1997, Composites Part A Appl Sci and Manuf **29A**(7) 711-865 (1998), 1A812
Flexural fatigue behavior of random continuous-fiber-reinforced thermoplastic composites, Composites Sci Tech **58**(6) 957-965 (Jun 1998), 1A831
Solid particle erosion behavior of FRP degraded by hot water, J Composite Mat **32**(13) 1295-1305 (1998), 1A848
10th French National Colloquium on Composite Materials, Composites Sci Tech **58**(5) 627-799 (May 1998), 1T880
Debonding and cracking energy release rate of the fiber-matrix interface, Composites Sci Tech **58**(3-4) 331-335 (Mar-Apr 1998), 1A883
Failure phenomena in 2D multi-fiber microcomposites - 3: A Raman spectroscopy study of the influence of interfacial debonding on stress concentrations, Composites Sci Tech **58**(6) 933-944 (Jun 1998), 1A887
Influence of reinforcement architecture on damage mechanisms and residual strength of glass-fiber and epoxy composite systems, Composites Sci Tech **58**(6) 803-813 (Jun 1998), 1A890
Multi-scale analysis to determine fiber-matrix debonding criteria in SiC-Titanium composites with and without consideration of the manufacturing residual stresses, Composites Sci Tech **58**(6) 945-955 (Jun 1998), 1A893
Fibrous Materials (Cambridge UP, UK, 1998) 2R9
Fiber reinforced concrete: Toughness under special conditions, Cement & Concrete Composites **20**(5) 339-415 (1998), 2T657
Flexural and interlaminar shear properties of glass-reinforced phenolic composites, Composites Part A Appl Sci and Manuf **29A**(8) 939-946 (1998), 2A658
Numerical solution of problems of edge effects in the composites weakly reinforced by rectangular fibers with cracks in the filler (Russian), Prikl Mekh (Appl Mech) **33**(5) 60-69 (1998), 2A659
Review of the biaxial strength of fiber-reinforced plastics, Composites Part A Appl Sci and Manuf **29A**(8) 869-886 (1998), 2A660
Strength prediction of RTM single-lap joints with transverse stitching, J Eng Mat Tech **120**(4) 300-303 (Oct 1998), 2A661
Piezoelectric fiber composites with interdigitated electrodes, J Intelligent Mat Syst Struct **8**(11) 903-919 (Nov 1997), 2A733
Interpretation of size effect in orthogonal machining of composite materials - Part I: Unidirectional glass-fiber-reinforced plastics, Composites Part A Appl Sci and Manuf **29A**(8) 887-892 (1998), 2A788
Nd-YAG laser machining of SiC fiber-borosilicate glass composites - Part I: Optimization of laser pulse parameters, Composites Part A Appl Sci and Manuf **29A**(8) 947-954 (1998), 2A792
Nd-YAG laser machining of SiC fiber-borosilicate glass composites - Part II: The effect of process variables, Composites Part A Appl Sci and Manuf **29A**(8) 955-964 (1998), 2A793

Prediction of extent of heat affected zone in laser grooving of unidirectional fiber-reinforced plastics, J Eng Mat Tech **120**(4) 321-327 (Oct 1998), 2A794
Filament winding technology: A numerical simulation and experimental validation of the winding and curing phases, Sci Eng Comp Mat **7**(3) 215-222 (1998), 2A805
Manufacture of aramid fiber reinforced nylon-12 by dry powder impregnation process, Composites Part A Appl Sci and Manuf **29A**(8) 933-938 (1998), 2A807
Fatigue properties of a glass-fiber-reinforced polyester material used in wind turbine blades, J Strain Anal Eng Des **33**(3) 183-193 (May 1998), 2A834
Investigation of the fatigue behavior of SCS-Ultra/Ti-6-4, J Reinforced Plastics Composites **17**(13) 1202-1212 (1998), 2A835
Damage in composite NiMH positive electrodes, J Eng Mat Tech **120**(4) 280-283 (Oct 1998), 2A872
Influence of the volume fraction of fiber-reinforced orthotropic composite on the mode-I stress intensity factor, J Strain Anal Eng Des **33**(3) 233-241 (May 1998), 2A877
Mechanical analysis for the design of a fiber reinforced pelvic prosthesis with the aid of CAD and CAE-techniques, Sci Eng Comp Mat **7**(3) 209-213 (1998), 2A1039
Residual thermal stresses in metallic and intermetallic matrix composites after cooling from processing temperature, J Composite Tech Res **20**(3) 161-169 (Jul 1998), 2A1330
Nonlinear analysis of fiber-reinforced plastic poles, Struct Eng and Mech **6**(7) 785-800 (Oct 1998), 3A27
Analysis of a fiber composite cylinder laminated with an elastic-plastic aluminum liner under internal pressure loading, J Thermoplastic Composite Mat **11**(5) 466-477 (Sep 1998), 3A558
Chemical resistance and tensile properties of short bamboo fiber reinforced epoxy composites, J Reinforced Plastics Composites **17**(17) 1507-1511 (1998), 3A559
Comparative study of the surface roughness of Nicalon and Tyranno silicon carbide fibers, Composites Part A Appl Sci and Manuf **29A**(11) 1417-1423 (1998), 3A560
Delamination resistance of post-stretched fiber metal laminates, J Composite Mat **32**(19) 1784-1805 (1998), 3A561
Effect of thickness on the tensile and impact properties of reinforced thermoplastics, J Reinforced Plastics Composites **17**(17) 1580-1586 (1998), 3A562
Effects of strain rate on the mechanical behavior of kevlar fiber bundles: An experimental and theoretical study, Composites Part A Appl Sci and Manuf **29A**(11) 1411-1415 (1998), 3A563
Fifth International Conference on Interfacial Phenomena in Composite Materials, Composites Part A Appl Sci and Manuf **29A**(9-10) 1007-1330 (1998), 3A564
Mechanical properties and endurance limit of fiber composite bars, J Reinforced Plastics Composites **17**(17) 1512-1524 (1998), 3A565
Prediction of springforward in continuous-fiber and polymer L-shaped parts, Composites Part A Appl Sci and Manuf **29A**(11) 1333-1342 (1998), 3A566
Manufacturing and characteristics of glass reinforced PTFE, J Reinforced Plastics Composites **17**(17) 1496-1506 (1998), 3A719
Probabilistic failure prediction of SCS-6 and Ti-15-3 MMC ring, J Mech Des **120**(4) 714-720 (Dec 1998), 3A773
Fracture of FRP plates containing blunt and shallow notches under static loads (Japanese), J Soc Mat Sci Japan **47**(7) 712-718 (Jul 1998), 3A776
Analysis of the fiber-matrix cylindrical model with a circumferential crack, Int J Fracture **88**(1) 87-105 (1997), 3A811
Behavior of the residual strain produced by matrix cracking in cross-ply laminates, Composites Part A Appl Sci and Manuf **29A**(11) 1425-1432 (1998), 3A812
Debonding mechanisms in the presence of an interphase in composites, Acta Mat **46**(15) 5237-5247 (Sep 1998), 3A813
Failure criteria in fiber-reinforced-polymer composites, Composites Sci Tech **58**(7) 1001-1254 (Jul 1998), 3A815
Failure of ± 55° filament wound glass-epoxy composite tubes under biaxial compression, J Composite Mat **32**(18) 1618-1645 (1998), 3A816
Interlaminar fracture toughness of GFRP influenced by fiber surface treatment, J Composite Mat **32**(17) 1528-1559 (1998), 3A817
Progressive fracture of fiber composite thin shell structures under internal pressure and axial loads, Int J Damage Mech **7**(4) 332-350 (Oct 1998), 3A822
Transverse matrix cracks in cross-ply laminates: Stress transfer, stiffness reduction, and crack opening profiles, Acta Mech **130**(3-4) 227-248 (1998), 3A824
International collaborative program on organosilane coupling agents: An introduction, Int J Adhesion Adhesives **18**(4) 261-264 (Aug 1998), 3A1005
Effects of thermal aging on the mechanical behavior of K3B matrix material, J Thermoplastic Composite Mat **11**(5) 429-442 (Sep 1998), 3A1343
Titanium ply effects on the behavior of a hybrid thermoplastic composite laminate, J Thermoplastic Composite Mat **11**(5) 443-454 (Sep 1998), 3A1344
Finite element model for the fire-performance of GRP panels including variable thermal properties, Finite Elements Anal Des **30**(4) 313-324 (Oct 1998), 4A33
Analysis of knitted fabric reinforced composites - Part I: Fiber orientation distribution, Composites Part A Appl Sci and Manuf **29A**(12) 1579-1588 (1998), 4A593
Analysis of knitted fabric reinforced composites - Part II: Stiffness and strength, Composites Part A Appl Sci and Manuf **29A**(12) 1589-1601 (1998), 4A594
Application of debond length measurements to examine the mechanics of fiber pushout, J Mech Phys Solids **46**(9) 1675-1697 (Sep 1998), 4A595
Effect of fiber-matrix adhesion on residual strength of notched composite laminates, Composites Part A Appl Sci and Manuf **29A**(12) 1525-1533 (1998), 4A596
Effects of water and seawater on the mechanical properties of carbon fiber reinforced epoxy composite under pre-cure curing condition, Adv Composites Letters **7**(4) 117-120 (1998), 4A597
Energy-based analytical push-out model applied to characterize the interfacial properties of knitted glass fiber reinforced PET, Composites Part A Appl Sci and Manuf **29A**(12) 1553-1562 (1998), 4A598
Evaluation of time-dependent properties of fiber reinforced plastic rods (Japanese), Proc JSCE **599**(V-40) 15-22 (Aug 1998), 4T599
Fiber reinforced composite based functionally gradient materials. Adv Composites Letters **7**(4) 111-115 (1998), 4A600
Numerical assessment of failure mechanisms in fiber metal laminates, Heron **43**(2) 63-84 (1998), 4A601
Polyamide coated glass fabric in polyester resin: Interlaminar shear strength versus moisture absorption studies, Composites Part A Appl Sci and Manuf **29A**(12) 1489-1499 (1998), 4A602
Tensile strength of fiber-reinforced composites - I: Model and effects of local fiber geometry, J Composite Mat **32**(22) 2042-2059 (1998), 4A603
Tensile strength of fiber-reinforced composites - II: Application to polymer matrix composites, J Composite Mat **32**(22) 2060-2081 (1998), 4A604
Transverse shear modulus of fiber-reinforced composites (Chinese), J Shanghai Jiaotong Univ **32**(8) 97-101 (Aug 1998), 4A605
High-speed turning experiments on metal matrix composites, Composites Part A Appl Sci and Manuf **29A**(12) 1501-1509 (1998), 4A737
New thermoplastic composite preforms based on split-film warp-knitting, Composites Part A Appl Sci and Manuf **29A**(12) 1511-1523 (1998), 4A759
Critical fiber length and apparent interfacial shear strength of single flax fiber polypropylene composites, Adv Composites Letters **7**(3) 81-85 (1998), 4A815
Damage mechanisms for angled through-thickness rod reinforcement in carbon-epoxy laminates, Composites Part A Appl Sci and Manuf **29A**(12) 1603-1613 (1998), 4A816
Effect of fiber fracture and matrix yielding on load sharing in continuous fiber metal matrix composites, J Composite Tech Res **20**(4) 203-209 (Oct 1998), 4A817
Interfacial fracture in fiber-metal laminates based on glass fiber reinforced polypropylene, Adv Composites Letters **7**(4) 97-103 (1998), 4A823
Interlaminar fracture of commingled GF-PET composite laminates, J Composite Mat **32**(20) 1808-1835 (1998), 4A824
Non-axisymmetric matrix cracking and interface debonding with friction in ceramic composites, Appl Composite Mat **5**(6) 379-397 (Nov 1998), 4A826
Predicting fracture from the tensile properties of a composite biomaterial, Composites Part A Appl Sci and Manuf **29A**(12) 1475-1480 (1998), 4A827
Tension-torsion behavior of glass epoxy flexbeam laminates, J Composite Tech Res **20**(4) 221-226 (Oct 1998), 4A830
Prediction of the bulk acoustic properties of fibrous materials at low frequencies, Appl Acoust **56**(2) 101-125 (Feb 1999), 5A292
Antiplane shear of a strip containing a periodic array of rigid line inclusions, Math Mech Solids **3**(4) 505-512 (Dec 1998), 5A433
Behavior of metal matrix composites subjected to cyclic thermal loading, J Mech Phys Solids **46**(11) 2183-2199 (Nov 1998), 5A500
Comparison of transverse properties of 50% short and long glass fiber reinforced nylon 6-6 resin, J Reinforced Plastics Composites **17**(18) 1617-1624 (1998), 5A501
Effects of hybridization on the mechanical performance of aramid-polyethylene intraply fabric composites, Composites Sci Tech **58**(10) 1621-1628 (Oct 1998), 5A502
Experimental assessment of fatigue life and failure modes in a SiC-Ti composites, Composites Sci Tech **58**(10) 1583-1591 (Oct 1998), 5A503
Influence of fiber interconnections on the thermomechanical behavior of metal matrix composites consisting of a Zn-Al alloy reinforced with steel fibers, Acta Mat **46**(18) 6497-6509 (Nov 1998), 5A504
Mechanical performance of glass woven fabric laminates: Effect of hybrid layers with different silane coupling agents, Polymers and Polymer Composites **6**(5) 305-312 (1998), 5A505
Modeling the effects of reinforcement distribution on the elastic properties of composite materials, Model Simulation Mat Sci Eng **6**(5) 587-602 (Sep 1998), 5A506
Preliminary study of negative Poisson's ratio of laminated fiber reinforced composites, J Reinforced Plastics Composites **17**(18) 1651-1664 (1998), 5A507
Semi-analytical resolution of a generalized unidirectional self-consistent model: Theoretical bases and experiment in viscoelasticity, J Composite Mat **32**(23) 2084-2119 (1998), 5A508
Single fiber pull-out test analysis: Influence of a compliant coating on the stresses at bonded interfaces, J Adhesion Sci Tech **12**(12) 1391-1412 (1998), 5A509
Tensile flow properties of Al-based matrix composites reinforced with a random planar network of continuous metallic fibers, Acta Mat **46**(18) 6311-6323 (Nov 1998), 5A510
Testing and simulation of industrial composite structures for optimizing customer satisfaction, Sci Eng Comp Mat **7**(4) 279-286 (1998), 5A511
Transverse tensile behavior of SiC-fiber and Ti-6Al-4V composites - 1: Experimental results, Composites Sci Tech **58**(10) 1571-1581 (Oct 1998), 5A512
Experimental study of the behavior of connections for pultruded GFRP I-beams and rectangular tubes, Composite Struct **42**(3) 281-290 (Jul 1998), 5A525
Design, manufacture, and characterization of composites using on-line recycled thermoplastic powder impregnation of fibers and in-situ filament winding, J Thermoplastic Composite Mat **11**(6) 533-572 (Nov 1998), 5A634
Recent developments encompassing non-isothermal and isothermal liquid composite molding process modeling-analysis: Physically accurate, computationally effective, and affordable simulations and validations, J Thermoplastic Composite Mat **11**(6) 493-532 (Nov 1998), 5A635
Fatigue crack initiation and multiplication of unnotched titanium matrix composites, Acta Mat **46**(18) 6645-6659 (Nov 1998), 5A648
Physically based micromechanical theory of macroscopic stress-corrosion cracking in aligned continuous glass-fiber-reinforced polymer laminates, Composites Sci Tech **58**(10) 1659-1665 (Oct 1998), 5A672
Modeling of R-curve behavior in ceramic-metal composites, Acta Mat **46**(18) 6381-6395 (Nov 1998), 5A724
Metal and Ceramic Based Composites (Elsevier Sci BV, Netherlands, 1997) 6R16
Creep behavior of interfaces in fiber reinforced metal-matrix composites, Acta Mat **47**(1) 149-164 (Dec 1998), 6A540
Advances in Polymer Matrix Composites: Microscopic to macroscopic, Composites Part A Appl Sci and Manuf **30A**(2) 113-177 (1999), 6A593
Analysis of stress concentrations in unidirectional composites taking into account the tensile load in the matrix, Acta Mech Solida Sinica **11**(4) 318-328 (1998), 6A594
Analytical characterization of the anisotropy of the elastic modulus of misaligned short-fiber-reinforced polymers, Composites Sci Tech **58**(12) 1961-1972 (Dec 1998), 6A595
Axial propagation of kink bands in fiber composites - Part I: Experiments, Int J Solids Struct **36**(4) 557-574 (Feb 1999), 6A596
Axial propagation of kink bands in fiber composites - Part II: Analysis, Int J Solids Struct **36**(4) 575-595 (Feb 1999), 6A597
Effect of the addition of cellulose on the mechanical performance of fiber-reinforced mortars, Adv Composites Letters **7**(5) 139-142 (1998), 6A598
Experimental support for the cell-model description of hyper-concentrated suspensions, J Thermoplastic Composite Mat **12**(1) 46-54 (Jan 1999), 6A599
Ligature model for fiber reinforced porous composites, Adv Composites Letters **7**(5) 127-131 (1998), 6A600
Stress transfer in high performance polyethylene fiber reinforced epoxy resin composite analyzed by X-ray diffraction: In the direction parallel to the fiber axis (Japanese), J Soc Mat Sci Japan **47**(10) 1083-1087 (Oct 1998), 6A601
Two-dimensional flow model for the process of complex shape composite laminates, Int J Numer Methods Eng **44**(1) 1-26 (Jan 1999), 6A602
Theoretical model for predicting fatigue crack growth rates in fiber-reinforced metal laminates, Fatigue Fracture Eng Mat Struct **21**(9) 1133-1145 (1998), 6A849
Probabilistic failure prediction for FRP composites, Composites Sci Tech **58**(12) 1973-1982 (Dec 1998), 6A885
Estimation of the fibers effect on the yield point of fibrous composite under shearing strain (Russian), Prikl Mekh (Appl Mech) **34**(9) 83-89 (1998), 6A926
Evaluation of interface fracture energy for single-fiber composites, Composites Sci Tech **58**(12) 1907-1916 (Dec 1998), 6A927
Flexural behavior of concrete beams reinforced with FRP bars, Adv Composites Letters **7**(5) 133-137 (1998), 6A1037
Finite lateral compression of an elastic-plastic fiber-reinforced tube: Loading solutions, J Mech Phys Solids **47**(2) 371-395 (Feb 1999), 7A511
Approximate upper and lower bounds for the strength of unidirectional composites, Composites Sci Tech **59**(1) 89-95 (Jan 1999), 7A529
Axial shear waves in fiber-reinforced composites with multiple interfacial layers between fiber core and matrix, Mech Mat **31**(2) 117-129 (Feb 1999), 7A530
Interface debonding in fiber reinforced cement-matrix composites, J Composite Mat **33**(2) 158-176 (1999), 7A531
Perforation impact behavior of rubber-interleaved woven GF fabric-reinforced PP composites, Adv Composites Letters **7**(6) 161-166 (1998), 7A532
Shear-lag simulation of the progress of interfacial debonding in unidirectional composites, Composites Sci Tech **59**(1) 77-88 (Jan 1999), 7A533
Study on "Fibro-Composites": Morphology of PBT-PE Blend (Japanese), J Soc Mat Sci Japan **47**(12) 1270-1275 (Dec 1998), 7A534
Behavior of composite soil reinforced with natural fibers, Cement & Concrete Composites **21**(1) 39-48 (1999), 7A642
Load ratio effects on fatigue response of titanium matrix composite at elevated temperature, Int J Fatigue **21**(2) 121-134 (Feb 1999), 7A698
Assessment of damage induced by thermal shock in SiC-fiber-reinforced borosilicate glass composites, Composites Sci Tech **59**(1) 105-112 (Jan 1999), 7A737
Axial compressive failure of titanium reinforced with silicon carbide monofilaments, Acta Mat **47**(2) 671-687 (Jan 1999), 7A738
Continuum damage mechanics model for fiber reinforced composites, Int J Damage Mech **8**(1) 2-17 (Jan 1999), 7A740
Examination of the effects from surface texture on the strength of fiber reinforced plastics, J Composite Mat **33**(2) 102-123 (1999), 7A744
Experimental investigation of a strain-softening approach to predicting failure in notched fiber-reinforced composite lamiantes, Composites Sci Tech **59**(1) 29-49 (Jan 1999), 7A746
Failure prediction for laminated composites under multiaxial loading, J Reinforced Plastics Composites **18**(2) 138-150 (1999), 7A747
Properties of high-strength steel fiber-reinforced concrete beams in bending, Cement & Concrete Composites **21**(1) 73-81 (1999), 7A849
Bursting problem of filament wound composite pressure vessels, Int J Pressure Vessels Piping **76**(1) 55-59 (Jan 1999), 7A882
Effects of surface geometry of composites on thermal stress distribution: A numerical study, Composites Sci Tech **59**(1) 41-54 (Jan 1999), 7A1421
Comparison of Young's modulus predictions in fiber-reinforced-polyamide injection moldings, Composites Sci Tech **59**(3) 419-427 (Feb-Mar 1999), 8A581
Effect of consolidation method on the mechanical properties of nonwoven fabric reinforced composites, Appl Composite Mat **6**(1) 19-34 (Jan 1998), 8A582
Effect of interfacial reactions on residual stress fields within composites, J Composite Mat **33**(4) 325-350 (1999), 8A583
Experimental study of scale effects in marine composites, Composites Part A Appl Sci and Manuf **30A**(3) 267-275 (1999), 8A584
Fiber prestressed composites: Improvement of flexural properties through fiber prestressing, J Reinforced Plastics Composites **18**(3) 279-288 (1999), 8A585
Influence of a ductile interphase on the overall elastoplastic behavior of a fiber-reinforced composite, J Appl Mech **66**(1) 21-31 (Mar 1999), 8A586
Longitudinal yielding behavior of SiC-fiber-reinforced titanium-matrix composites, Composites Sci Tech **59**(2) 297-303 (Feb 1999), 8A587
Model for cracking in fiber-reinforced concrete structures, Mat Struct **32**(216) 125-130 (Mar 1999), 8A588
Modeling of plain weave fabric composite geometry, J Composite Mat **33**(3) 188-220 (1999), 8A589
Shear-lag model for a broken fiber embedded in a composite with a ductile matrix, Composites Sci Tech **59**(3) 447-457 (Feb-Mar 1999), 8A590
Significance of fiber microbuckling for the flexural strength of a composite, Composites Sci Tech **59**(3) 327-330 (Feb-Mar 1999), 8A591

Thermoelastic disc test for the mechanical characterization of fiber-reinforced molded composites: Theory, Composites Sci Tech **59**(3) 371-378 (Feb-Mar 1999), 8A592
Towards a numerical model of the compressive strength for long fiber composites, Eur J Mech A **18**(1) 69-92 (Jan-Feb 1999), 8A593
Translaminar reinforced composites: A review, J Composite Tech Res **21**(1) 3-15 (Jan 1999), 8A594
Woven fabric composite material model with material nonlinearity for nonlinear FE simulation, Int J Solids Struct **36**(18) 2757-2771 (Jun 1999), 8A595
Stress and plastic strain fields during unconstrained and constrained fabrication cool down of fiber-reinforced IMCs, J Composite Mat **33**(4) 351-376 (1999), 8A719
Micro- and macroscopic characterizations of the viscoelastic fracture of resin-based fiber composites, Composites Sci Tech **59**(2) 317-323 (Feb 1999), 8A776
Stress transfer from the matrix to the fiber in a fragmentation test: Raman experiments and analytical modeling, J Composite Mat **33**(4) 377-399 (1999), 8A794
Study on interfacial aspects of epoxy-based composites reinforced with dual basalt and SiC fibers by means of the fragmentation and acoustic emission techniques, Composites Sci Tech **59**(3) 355-370 (Feb-Mar 1999), 8A797
Effects of age up to 18 years under various exposure conditions on the tensile properties of a polypropylene fiber reinforced cement composites, Mat Struct **32**(216) 83-88 (Mar 1999), 8A860
Performance of concrete beams prestressed with aramid fiber-reinforced polymer tendons, Composite Struct **44**(1) 63-70 (Jan 1999), 8A863
Propagation of wideband acoustic pulses in unidirectional fiber composites, Russian Ultrasonics **28**(5) 217-226 (1998), 9A224
Analysis and design of reinforced concrete beams strengthened with FRP laminates, Arab J Sci Eng **23**(2C) 167-182 (Dec 1998), 9A635
Axial compression of empty and foam filled composite conical shells, J Composite Mat **33**(6) 567-591 (1999), 9A636
Axial yarn crimping effects in braided composite materials, J Composite Mat **33**(5) 402-419 (1999), 9A637
Calculation of the modulus of resilience in 3D textured composite material mode by two-step method, J Huazhong Univ Sci Tech **26**(SII) 38-40 (Nov 1998), 9A638
Comparison of the properties of hot compacted gel-spun polyethylene fiber composites with conventional gel-spun polyethylene fiber composites, Composites Part A Appl Sci and Manuf **30A**(5) 649-660 (1999), 9A639
Determination of short glass-fiber volume fractions in compression molded thermoset composites: Experimental, J Composite Mat **33**(6) 525-546 (1999), 9A640
Determination of short glass-fiber volume fractions in compression molded thermoset composites: Numerical, J Composite Mat **33**(6) 547-566 (1999), 9A641
Effect of the oxygen-plasma treatment of UHMWPE fiber on the transverse properties of UHMWPE-fiber-vinylester composites, Composites Sci Tech **59**(4) 487-493 (Mar 1999), 9A642
Experimental investigation of the thermal properties of wood fiber-thermoplastic composites, J Composite Mat **33**(5) 480-495 (1999), 9A643
International Symposium on ceramic matrix composites: A special session of SAMPE, JISSE-5, October 28-30, 1997, Tokyo, Japan, Composites Part A Appl Sci and Manuf **30A**(4) 399-597 (1999), 9A644
Investigation of the durability characteristics of fiber reinforced plastic materials in concrete environment, J Thermoplastic Composite Mat **12**(3) 214-226 (May 1999), 9A645
Mechanical behavior of a fiber end in short fiber reinforced composites, Int J Eng Sci **37**(6) 753-770 (May 1999), 9A646
Mechanical properties for self-reinforced braided composite tubes, J Thermoplastic Composite Mat **12**(3) 164-176 (May 1999), 9A647
Buckling of vertically loaded fiber-reinforced polymer piles, J Reinforced Plastics Composites **18**(4) 290-318 (1999), 9A716
New punching method in intractable AFRP laminated composites by press working, JSME Int J Ser C **41**(3) 493-498 (Sep 1998), 9A773
Pultrusion of thermoplastic composites - Process optimization and mathematical modeling, J Thermoplastic Composite Mat **12**(2) 96-120 (Mar 1999), 9A787
Effects of frequency and temperature on the fatigue behavior of a unidirectional titanium-matrix composite, Composites Sci Tech **59**(4) 583-591 (Mar 1999), 9A805
Fatigue behavior of composite bars subjected to bending and torsion, Composites Sci Tech **59**(4) 575-582 (Mar 1999), 9A808
Fatigue behavior of single skin FRP tee joints, Int J Fatigue **21**(3) 281-296 (Mar 1999), 9A809
Fatigue life prediction of circular notched CFRP laminates, Composite Struct **44**(2-3) 163-168 (Feb-Mar 1999), 9A816
Damage modeling of a transversely loaded titanium matrix composite under cyclic conditions, J Composite Tech Res **21**(2) 75-83 (Apr 1999), 9A880
Fracture behavior of glass fiber-recycled PET composites, J Reinforced Plastics Composites **18**(4) 373-387 (1999), 9A884
Fracture in off-axis unidirectionally reinforced ceramic composites, Int J Fracture **90**(3) 209-234 (1998), 9A886
Modeling of a patch repair to a thin cracked sheet, Eng Fracture Mech **62**(2-3) 267-289 (Jan-Feb 1999), 9A929
Fracture strength of fiber-bonded ceramic composite subjected to static and impact bending, JSME Int J Ser A **41**(4) 495-502 (Oct 1998), 10A275
Creep of SiC-Ti-1100 composite in a vacuum environment, Acta Mat **47**(6) 1723-1734 (Apr 1999), 10A545
Creep/creep-recovery response of fibredux 920C-TS-5-42 composite under flexural loading, Adv Composites Letters **8**(1) 71-86 (1999), 10A546
Analytical and experimental evaluation of nonlinear viscoelastic-viscoplastic composite laminates under creep, creep-recovery, relaxation and ramp loading, Mech Time-Dependent Mat **2**(2) 113-128 (1998), 10A581
Analysis of the relationship between processing conditions, fiber orientation, final properties in short fiber reinforced polypropylene, J Reinforced Plastics Composites **18**(5) 413-420 (1999), 10A624
Buckling of woven GFRP cylinders under concentric and eccentric compression, Composite Struct **45**(1) 13-27 (May 1999), 10A625
Direct evaluation of strain and strain distribution using grid method during shear deformation of metal matrix composites, JSME Int J Ser A **41**(4) 569-575 (Oct 1998), 10A626
Effect of fiber content on the mechanical properties of glass fiber mat-polypropylene composites, Composites Part A Appl Sci and Manuf **30A**(6) 815-822 (1999), 10A627
Effects of a pulsed XeCl excimer laser on ultra-high strength polyethylene fiber and its interface with epoxy resin, J Adhesion Sci Tech **13**(4) 501-516 (1999), 10A628
Improved shear lag model for broken fibers in composite materials, J Composite Mat **33**(7) 667-680 (1999), 10A629
Mechanical properties of bone-shaped-short-fiber reinforced composites, Acta Mat **47**(6) 1767-1781 (Apr 1999), 10A630
Ovalization analysis of fiber-reinforced plastic poles, Composite Struct **45**(1) 7-12 (May 1999), 10A631
Prediction of overall tension behavior of short fiber-reinforced composites, Int J Solids Struct **36**(27) 4071-4087 (Sep 1999), 10A632
Residual stresses in short-fiber reinforced injection-molded thermoplastic parts, Mech Time-Dependent Mat **2**(2) 129-169 (1998), 10A633
Strength anisotropy of misaligned short-fiber-reinforced polymers, Composites Sci Tech **59**(5) 699-708 (Apr 1999), 10A634
Estimates for the transverse shear modulus of unidirectional composites, Eur J Mech A **18**(2) 239-251 (Mar-Apr 1999), 10A641
Effect of heat treatment on the drilling performance of aluminium-SiC MMC, Appl Composite Mat **6**(2) 121-138 (Mar 1999), 10A804
Fatigue mechanisms in unidirectional glass-fiber-reinforced polypropylene, Composites Sci Tech **59**(5) 759-768 (Apr 1999), 10A835
Recent progress in creep rupture analysis of unidirectional composites reinforced with long brittle fibers, JSME Int J Ser A **41**(2) 167-177 (Apr 1998), 10A857
Fatigue-life prediction of SiC aluminum composite using a Weibull model, NDT&E Int **32**(5) 265-274 (Jul 1999), 10A867
Damage initiation under transverse loading of unidirectional composites with arbitrarily distributed fibers, Composites Sci Tech **59**(5) 673-682 (Apr 1999), 10A904
Effect of fiber content on the interlaminar fracture toughness of unidirectional glass-fiber-polyamide composite, Composites Part A Appl Sci and Manuf **30A**(6) 747-755 (1999), 10A907
Effect of glass fiber-matrix interfacial quality on the dynamics of microfractures in GFRP - 1st Report: AE source simulation method and acoustic properties of UD-GFRP, JSME Int J Ser A **41**(3) 359-365 (Jul 1998), 10A908
Effect of glass fiber-matrix interfacial quality on the dynamics of microfractures in GFRP - 2nd Report: Dynamics of microfractures in UD GFRP by AE source simulation, JSME Int J Ser A **41**(3) 366-371 (Jul 1998), 10A909
Failure mechanisms of sisal fibers in composites, Adv Composites Letters **8**(1) 13-17 (1999), 10A910
Mechanical behavior of brittle matrix composites: A homogenization approach, Int J Solids Struct **36**(24) 3591-3615 (Aug 1999), 10A914
Permeability characterization of different architectural fabrics, J Composite Mat **33**(8) 729-750 (1999), 10A1194
Transient analysis and measurement of anisotropic heat conduction in transversely isotropic composite materials, J Composite Mat **33**(7) 594-613 (1999), 10A1339
Three-dimensional global-local analysis of composite hip prostheses: A model for multiscale structural analysis, Composite Struct **45**(3) 163-170 (Jul 1999), 11A40
Stress concentrations caused by fiber failure in 2D composites, Composites Sci Tech **59**(7) 1063-1071 (May-Jun 1999), 11A463
Further development of a data reduction method for the nonlinear viscoelastic characterization of FRPs, Composites Part A Appl Sci and Manuf **30A**(7) 839-848 (1999), 11A499
Certain properties of the equations of shells reinforced with constant cross section fibers, Composite Mech Des **3**(2) 17-31 (1997), 11A523
Characterization of LDPE residual matrix deposited on glass fibers by a dissolution-reprecipitation recycling process, Composites Part A Appl Sci and Manuf **30A**(7) 831-838 (1999), 11A524
Damage mechanics of top-hat stiffeners used in FRP ship construction, Marine Struct **12**(1) 1-19 (Jan 1999), 11A525
Design considerations for rotating laminated metal-matrix-composite shafts, Composites Sci Tech **59**(6) 883-896 (May 1999), 11A526
Fiber-cement interface tailoring with plasma treatment, Cement & Concrete Composites **21**(3) 205-212 (1999), 11A527
Hierarchical modeling of textile composite materials and structures by the homogenization method, Model Simulation Mat Sci Eng **7**(2) 207-231 (Mar 1999), 11A528
Influence of electric fields and charges on boundary-layer structure in fiber-reinforced polymer composites, Composite Mech Des **3**(2) 43-49 (1997), 11A529
Properties of PIPD-fiber-epoxy composites, Composites Sci Tech **59**(7) 1109-1116 (May-Jun 1999), 11A530
Static behavior of preconditioned glass-fiber reinforced epoxy sandwich I-beams, Composites Sci Tech **59**(6) 963-973 (May 1999), 11A531
Interlaminar stresses at the free corners of a laminate, Composite Struct **45**(2) 155-162 (Jun 1999), 11A542
Sheet forming simulation of knitted fabric composites considering fabric reorientation, Mech Res Commun **26**(2) 209-215 (Mar-Apr 1999), 11T703
Numerical approach to the modeling of polymer curing in fiber-reinforced composites, Composites Sci Tech **59**(7) 1003-1013 (May-Jun 1999), 11A720
Fatigue crack growth properties of a GLARE3-5-4 fiber-metal laminate, Eng Fracture Mech **63**(3) 253-272 (Jun 1999), 11A733
Fatigue crack propagation in polypropylene reinforced with short glass fibers, Composites Sci Tech **59**(7) 1055-1062 (May-Jun 1999), 11A735
Long-term environmental fatigue of pultruded glass-fiber-reinforced composites under flexural loading, Int J Fatigue **21**(5) 485-495 (May 1999), 11A743
Bridging stress distribution in center-cracked fiber reinforced metal laminates: Modeling and Experiment, Eng Fracture Mech **63**(2) 147-163 (May 1999), 11A805
Damage mechanics applied to concrete reinforced with amorphous cast iron fibers, concrete subjected to compression, Cement & Concrete Composites **21**(3) 197-204 (1999), 11A806
Deformation, yield and fracture of unidirectional composites in transverse loading - I: Influence of fiber volume fraction and test-temperature, Composites Part A Appl Sci and Manuf **30A**(7) 905-916 (1999), 11A807
Deformation, yield and fracture of unidirectional composites in transverse loading - 2: Influence of fiber-matrix adhesion, Composites Part A Appl Sci and Manuf **30A**(7) 917-932 (1999), 11A808
Graphite-fiber-carbide-matrix composites - Part III: Fracture behavior of composites with a boron-carbide matrix, Composites Sci Tech **59**(6) 873-877 (May 1999), 11A811
Mode I interlaminar fracture toughness properties of advanced textile fiberglass composites, Composites Part A Appl Sci and Manuf **30A**(7) 859-870 (1999), 11A812
Transverse tensile behavior of SiC-fiber-Ti-6Al-4V composites - Part II: Stress distribution and interface failure, Composites Sci Tech **59**(7) 1087-1096 (May-Jun 1999), 11A813
Prestressed fiber reinforced concrete beams with reduced ratios of shear reinforcement, Cement & Concrete Composites **21**(3) 213-221 (1999), 11A906
Effect of interface shape on the strength for carbon steel-PMMA adhered joint (Japanese), J Soc Mat Sci Japan **48**(3) 264-268 (Mar 1999), 11A1015
Thermoelastic properties of short-fiber-reinforced thermoplastics, Composites Sci Tech **59**(6) 911-923 (May 1999), 11A1456
Aspects of the tensile response of random continuous glass-epoxy composites, J Reinforced Plastics Composites **18**(7) 606-613 (1999), 12A198
Prediction of nonlinear viscoelastic response of unidirectional fiber composites, Composites Sci Tech **59**(9) 1311-1319 (Jul 1999), 12A589
Computer simulation of 3D random distribution of short fibers in metal matrix composite materials, J Eng Mat Tech **121**(3) 386-392 (Jul 1999), 12A617
Extensional and shearing flow of a glass-mat-reinforced thermoplastics material as a non-Newtonian viscous fluid, Composites Sci Tech **59**(9) 1399-1410 (Jul 1999), 12A618
Influence of fiber cross-sectional aspect ratio on mechanical properties of glass fiber-epoxy composites - I: Tensile and flexure behavior, Composites Sci Tech **59**(9) 1331-1339 (Jul 1999), 12A619
Mechanical and electrical assessment of hybrid composites containing hollow glass reinforcement, Composites Sci Tech **59**(9) 1321-1329 (Jul 1999), 12A620
Possibilities for improving the mechanical properties of jute-epoxy composites by alkali treatment of fibers, Composites Sci Tech **59**(9) 1303-1309 (Jul 1999), 12A621
Problem of fancy yarn modeling, Fibres Textiles in E Europe **7**(2) 32-34 (Apr-Jun 1999), 12A622
Representation of reinforcing fibers in composites as 3D space curves, Composites Sci Tech **59**(8) 1227-1237 (Jun 1999), 12A623
Residual stresses reduction in filament wound composite tubes, J Reinforced Plastics Composites **18**(8) 684-701 (1999), 12A624
Drilling unidirectional glass fiber-reinforced composite materials at high speed, J Composite Mat **33**(9) 827-851 (1999), 12A728
Trepanning on unidirectional composites: Delamination studies, Composites Part A Appl Sci and Manuf **30A**(8) 951-959 (1999), 12A733
Compression molding of glass and polypropylene composites for optimized macro- and micro-mechanical properties - Part 3: Sandwich structures of GMTs and commingled fabrics, Composites Sci Tech **59**(8) 1153-1167 (Jun 1999), 12A744
Curing of thick angle-bend thermoset composite part: Curing cycle effect on thickness variation and fiber volume fraction, J Reinforced Plastics Composites **18**(8) 702-723 (1999), 12A746
Empirical fatigue-life model for high-performance fiber composites with and without impact damage, Composites Part A Appl Sci and Manuf **30A**(8) 971-987 (1999), 12A768
Fatigue life prediction for GRP subjected to variable amplitude loading, Composites Part A Appl Sci and Manuf **30A**(8) 961-970 (1999), 12A775
Analysis of intersonic crack growth in unidirectional fiber-reinforced composites, J Mech Phys Solids **47**(9) 1893-1916 (Sep 1999), 12A827
Effect of ply thickness and fiber orientation on delamination initiation in broken ply composite laminates, J Reinforced Plastics Composites **18**(8) 735-758 (1999), 12A829
Interlaminar fracture toughness of 3D orthogonal interlocked fabric composites, Composites Sci Tech **59**(8) 1261-1270 (Jun 1999), 12A832
Fastener design for transversely loaded composite plates, J Composite Mat **33**(10) 928-940 (1999), 12A1015

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Axisymmetrical mixed problem of stationary dynamical theory of elasticity for a layer with a circular hole, Prikl Mekh (Appl Mech) **34**(1) 39-46 (1998), 1A523
Anti-symmetric angle-ply laminated thick cylindrical panels, Int J Solids Struct **35**(28-29) 3717-3735 (Oct 1998), 1A629
Compressive behavior of plain weave lamina, J Composite Mat **32**(15) 1334-1355 (1998), 1A630
Effect of the spread of the binder strength characteristics on deformation of layered-fibrous composite materials, Prikl Mekh (Appl Mech) **34**(1) 47-54 (1998), 1A631
Interlaminar strains and compressive strength reductions due to nested layer waviness in composite laminates, J Reinforced Plastics Composites **17**(11) 989-1011 (1998), 1A632
Proceedings of the International Symposium on deformation characteristics and modeling of materials in honor of Professor Sia Nemat-Nasser's 60th birthday: Sendai, Japan, August 22-23, 1996, Mech Mat **28**(1-4) 1-279 (May 1998), 1T633
Modeling interply debonding in laminated architectural glass subject to low velocity impact, Struct Eng and Mech **6**(5) 485-496 (Jul 1998), 1A641
Interlaminar stress analysis with a new multiparticle modelization of multilayered materials (M4), Composites Sci Tech **58**(3-4) 337-343 (Mar-Apr 1998), 1A673
Axisymmetric response of circular plates with piezoelectric layers: An exact solution, Int J Mech Sci **40**(12) 1265-1279 (Dec 1998), 1A725
Curing behavior of thick-sectioned RTM composites, J Composite Mat **32**(14) 1273-1296 (1998), 1A808

Damage modeling of laminated composites by the use of multilayer volume elements, Composites Sci Tech **58**(6) 891-905 (Jun 1998), 1A882
Surface damage modeling of oxidized metal matrix composite laminates under axial and transverse tension, Int J Damage Mech **7**(3) 209-237 (Jul 1998), 1A898
Genetic algorithm applied to stiffness maximization of laminated plates: Review and comparison, Struct Optim **15**(3-4) 221-229 (Jun 1998), 1A948
Multilayered woven fabrics: Design and structures for technical applications, Fibres Textiles in E Europe **6**(1) 64-67 (Jan-Mar 1998), 2T662
Solution of one class of problems arising under the study of stable laminated composites (Russian), Prikl Mekh (Appl Mech) **34**(5) 48-56 (1998), 2A663
Torsion of composite laminated bars with a large number of layers, Appl Math Mech **19**(6) 585-591 (Jun 1998), 2A664
Using the semi-analytical Hamilton method to study the thermal interlaminate stress of composites during cooling down process, Chinese J Comput Mech **15**(3) 338-342 (Aug 1998), 2T665
Width effects on the tensile strength and fatigue behavior of angle-ply laminates, Int J Fatigue **20**(8) 575-580 (Sep 1998), 2A666
Geometric nonlinear static analysis of laminated hat stiffened plates, J Reinforced Plastics Composites **17**(14) 1264-1280 (1998), 2A705
Interpretation of size effect in orthogonal machining of composite materials - Part II: Sheet molding compound, Composites Part A Appl Sci and Manuf **29A**(8) 893-897 (1998), 2A789
Gradient foam core materials for sandwich structures: Preparation and characterization, Composites Part A Appl Sci and Manuf **29A**(8) 981-988 (1998), 2A806
Constitutive relation and stiffness degradation of cracked anisotropic composites laminates - II: Determination of resolved stiffness and investigation of stiffness degradation for cracked laminates, Appl Math Mech **19**(6) 555-561 (Jun 1998), 2A871
Damage in laminated composites due to low velocity impact, J Reinforced Plastics Composites **17**(14) 1232-1263 (1998), 2A873
Interlaminar Mode I fracture of IM7-LaRC-RP46 composites at high temperatures, J Composite Mat **32**(16) 1508-1526 (1998), 2A878
Nonlinear analyses of homogeneous, symmetrically delaminated single leg bending specimens, J Composite Tech Res **20**(3) 170-178 (Jul 1998), 2A880
Transmission loss in a shallow ocean over a two-layer seabed, Int J Solids Struct **35**(34-35) 4779-4801 (Dec 1998), 3A14
Stability behavior of rotating composite shafts under axial compressive loads, Composite Struct **41**(3-4) 253-263 (Mar-Apr 1998), 3A99
Spherical indentation of composite laminates with controlled gradients in elastic anisotropy, Int J Solids Struct **35**(36) 5097-5113 (Dec 1998), 3A500
Backward transfer-matrix method for elastic analysis of layered solids with imperfect bonding, J Elast **50**(2) 109-128 (1998), 3A567
Strength of materials formulation for thin walled composite beams with torsion, J Composite Mat **32**(17) 1560-1594 (1998), 3A598
Optimizing lamination of hybrid thick-walled cylindrical shell under external pressure by using a genetic algorithm, J Thermoplastic Composite Mat **11**(5) 417-428 (Sep 1998), 3A631
Analysis of composite laminates with piezoelectric sensor-actuator (Chinese), J Xi'an Jiaotong Univ **32**(9) 76-80 (1998), 3A650
Strength and life in thermoplastic composite laminates under static and fatigue loads - Part I: Experimental, Int J Fatigue **20**(9) 605-615 (Oct 1998), 3A753
Strength and life in thermoplastic composite laminates under static and fatigue loads - Part II: Formulation, Int J Fatigue **20**(9) 617-629 (Oct 1998), 3A754
Effects of hail damage on the fatigue strength of a graphite-epoxy composite laminate, Composite Struct **42**(2) 101-106 (Jun 1998), 3A814
Two-term parameter technique to calculate energy release rate of composite lamiantes, Composite Struct **42**(2) 169-174 (Jun 1998), 3A825
Quantitative characterization of multiple delaminations in laminated composites using the Compton backscatter technique, J Nondestruct Eval **17**(2) 53-65 (Jun 1998), 3A859
End effects for anti-plane shear deformations of periodically laminated strips with imperfect bonding, J Elast **50**(3) 227-244 (1998), 4A606
Influence of ply orientation on delamination in composite laminates, J Composite Mat **32**(21) 1933-1947 (1998), 4A820
Exact solutions for functionally graded and laminated elastic materials, J Mech Phys Solids **46**(12) 2283-2295 (Dec 1998), 5A513
Crack growth analysis in homogeneous orthotropic laminates, Composites Sci Tech **58**(10) 1697-1703 (Oct 1998), 5A647
Analysis of a stitched double cantilever beam, J Composite Mat **32**(24) 2203-2225 (1998), 5A714
Composite laminates with elliptical pin-loaded holes, Eng Fracture Mech **61**(2) 279-295 (Sep 1998), 5A716
Model for moisture absorption in cross-ply composite laminates with matrix cracks, J Composite Mat **32**(24) 2226-2253 (1998), 5A723
Identification of elastic properties of composites by method of planning of experiments, Composite Struct **42**(3) 257-263 (Jul 1998), 5A747
Optimum design of laminated composite plates with cutouts using a genetic algorithm, Composite Struct **42**(3) 265-279 (Jul 1998), 5A769
Adhesively bonded assemblies with identical nondeformable adherends and nonhomogeneous adhesive layer: Predicted thermal stresses in the adhesive, J Reinforced Plastics Composites **17**(18) 1588-1606 (1998), 5A1333
Finite element model with continuous transverse shear stress for composite laminates in cylindrical bending, Finite Elements Anal Des **31**(2) 153-164 (Dec 1998), 6A48
Theory of vibrations of three-layered plates (Russian), Prikl Mekh (Appl Mech) **34**(9) 69-75 (1998), 6A162
Elasticity solution and free vibrations analysis of laminated anisotropic cylindrical shells, Struct Eng and Mech **7**(2) 181-202 (Feb 1999), 6A603
Green's function for an elastic layered medium represented by eigenfunctions for the discrete and continuous spectrums (Japanese), Proc JSCE **605**(I-45) 171-185 (Oct 1998), 6A604
Stress analysis of finite composite laminate with multiple loaded holes, Int J Solids Struct **36**(6) 919-931 (Feb 1999), 6A605
Transient responses of geometrically nonlinear laminated composite shell structures, Finite Elements Anal Des **31**(2) 117-134 (Dec 1998), 6A606
International Workshop on Experimental Techniques in the Analysis of Composite Structures, Composite Struct **42**(4) 299-382 (Aug 1998), 6A623
Joint influence of temperatures and surface compressing loads on stability of multilayer elastic-coating at small subcritical deformations (Russian), Prikl Mekh (Appl Mech) **34**(8) 32-39 (1998), 6A683
Postbuckling response and failure of symmetric laminates under in-plane shear, Composites Sci Tech **58**(12) 1949-1960 (Dec 1998), 6A685
Thermomechanical postbuckling of composite laminated cylindrical shells with local geometric imperfections, Int J Solids Struct **36**(4) 597-617 (Feb 1999), 6A701
Distribution of magnetoelastic shift waves in laminated media of regular structure (Russian), Prikl Mekh (Appl Mech) **34**(10) 136-143 (1998), 6T710
Beam analysis of angle-ply laminate end-notched flexure specimens, Composites Sci Tech **58**(12) 1929-1938 (Dec 1998), 6A920
Influence of the local structural damage of the multilayered thick plate material to the stress distribution (Russian), Prikl Mekh (Appl Mech) **34**(9) 64-68 (1998), 6T932
Tensile fracture of graphite-epoxy laminates containing central holes and cracks, Adv Composites Letters **7**(5) 143-147 (1998), 6A940
Selection of optimal parameters of multilayer plates at nonstationary loadings, Meccanica **33**(6) 553-564 (Dec 1998), 6A1022
Thickness effects on pinned joints for composites, J Composite Mat **33**(1) 2-21 (1998), 6A1114
Asymptotic model of orthotropic highly inhomogeneous layered structure, Mech Mat **31**(2) 101-115 (Feb 1999), 7A476
Bending of unbounded multilayered beams and plates, Mech Res Commun **26**(1) 69-74 (Jan-Feb 1999), 7T556
Laminated composite plates with integrated sensors and actuators, Eng Struct **21**(7) 568-593 (Jul 1999), 7A573
Finite thickness cracked layer bonded to viscoelastic substrate subjected to antiplane shear, Int J Solids Struct **36**(12) 1781-1797 (Apr 1999), 7A717
Fracture of metal-ceramic laminates - I: Transition from single to multiple cracking, Acta Mat **47**(2) 529-543 (Jan 1999), 7A748
Fracture of metal-ceramic laminates - II: Crack growth resistance and toughness, Acta Mat **47**(2) 545-563 (Jan 1999), 7A749
Free vibration behavior of helically wound cylindrical shells, Composite Struct **44**(1) 55-62 (Jan 1999), 8A156
Higher-order theory for plane stress conditions of laminates consisting of isotropic layers, J Appl Mech **66**(1) 95-100 (Mar 1999), 8A531
Influence of layers with low transverse stiffness on the contact response of composite half planes, Composites Sci Tech **59**(3) 331-343 (Feb-Mar 1999), 8A596
Buckling analysis of anisotropic variable-curvature panels and shells, Composite Struct **43**(4) 321-329 (Dec 1998), 8A657
Buckling and postbuckling behavior of composite cross-ply laminates with multiple delaminations, Composite Struct **43**(4) 257-274 (Dec 1998), 8A664
Mechanisms of wrinkle formation during the processing of composite laminates, Composites Sci Tech **59**(3) 405-417 (Feb-Mar 1999), 8A716
Modeling of resin transfer molding of composite materials with oriented unidirectional plies, Composites Part A Appl Sci and Manuf **30A**(3) 375-383 (1999), 8A760
Assessment of evaluation methods for the mixed-mode bending test, J Composite Tech Res **21**(1) 37-48 (Jan 1999), 8A780
Beam analysis of angle-ply laminate DCB specimens, Composites Sci Tech **59**(2) 305-315 (Feb 1999), 8A781
Composite repairs to cracks in thick metallic components, Composite Struct **44**(1) 17-29 (Jan 1999), 8A782
Modeling failure in notched plates with micropolar strain softening, Composite Struct **44**(1) 71-79 (Jan 1999), 8A789
Studies in the matrix dominated failures of composite joints, Composite Struct **44**(1) 1-16 (Jan 1999), 8A795
Mesoscopic scale analysis of the reaction-bonded SiC process, Composites Part A Appl Sci and Manuf **30A**(3) 339-348 (1999), 8A954
Design and Optimization of Laminated Composite Materials (Wiley, New York, 1999) 9R21
Selection of modes of a piezoelectric layer in a composite acoustic resonator using bulk acoustic waves, Russian Ultrasonics **28**(5) 211-216 (1998), 9A225
Free vibrations of rectangular composite plates with point-supports using static beam functions, Composite Struct **44**(2-3) 145-154 (Feb-Mar 1999), 9A648
Graphite-epoxy honeycomb core sandwich permeability under mechanical loads, Composite Struct **44**(4) 253-261 (Apr 1999), 9A649
Measurement of residual stresses in a multi-layer explosive welded joint with successive milling technique, Strain **35**(1) 7-10 (Feb 1999), 9A650
Modeling of the torsional behavior of plasma sprayed copper, Composite Struct **44**(2-3) 129-136 (Feb-Mar 1999), 9A651
Nonhomogeneous response of cross-ply laminated elastic plates using a higher-order theory, Composite Struct **44**(4) 297-305 (Apr 1999), 9A668
Dynamic analysis for laminated composite beams, Composite Struct **44**(2-3) 81-87 (Feb-Mar 1999), 9A685
Similitude study for a laminated cylindrical tube under tensile, torsion, bending, internal and external pressure - Part I: Governing equations, Composite Struct **44**(4) 221-229 (Apr 1999), 9A697
Similitude study for a laminated cylindrical tube under tension, torsion, bending, internal and external pressure - Part II: Scale models, Composite Struct **44**(4) 231-236 (Apr 1999), 9A698
Buckling and free vibration of non-homogeneous composite cross-ply laminated plates with various plate theories, Composite Struct **44**(4) 279-287 (Apr 1999), 9A709
Fatigue of composite laminates under off-axis loading, Int J Fatigue **21**(3) 253-262 (Mar 1999), 9A810
Modeling the fatigue behavior of sandwich beams under monotonic, 2-step and block-loading regimes, Composites Sci Tech **59**(4) 471-486 (Mar 1999), 9A812
Crack opening displacement and the associated response of laminates with varying constraints, Int J Damage Mech **8**(2) 174-193 (Apr 1999), 9A879
Designation of mode mix in orthotropic composite delamination problems, Int J Fracture **90**(4) 383-400 (1998), 9A882
Local approach of the damage of multimaterials loaded in warping torsion, Sci Eng Comp Mat **8**(1) 35-43 (1999), 9A888
Mixed-mode failure criterion derived from tests on symmetric and asymmetric specimens, Composites Sci Tech **59**(4) 609-619 (Mar 1999), 9A889
Stiffness degradation induced by multilayer intralaminar cracking in composite laminates, Composites Part A Appl Sci and Manuf **30A**(5) 683-706 (1999), 9A893
Transverse cracking and delamination in cross-ply gr-ep composites under dry, saturated and immersed fatigue, Int J Fracture **91**(2) 103-116 (1998), 9A895
Simple elasticity solution for predicting interlaminar stresses in laminated composites, J Am Helicopter Soc **44**(2) 94-100 (Apr 1999), 10A615
Design and fabrication of submerged cylindrical laminates - I, Int J Solids Struct **36**(26) 3917-3943 (Sep 1999), 10A635
Design and fabrication of submerged cylindrical laminates - II: Effect of fiber pre-stress, Int J Solids Struct **36**(26) 3945-3976 (Sep 1999), 10A636
Effect of friction on subsurface stresses in sliding line contact of multilayered elastic solids, Int J Solids Struct **36**(26) 3903-3915 (Sep 1999), 10A637
Effect of strain rate on the interlaminar shear strength of a carbon-epoxy cross-ply laminate: Comparison between experiment and numerical prediction, Composites Sci Tech **59**(5) 749-758 (Apr 1999), 10A638
Stress transfer and stiffness reduction in orthogonally cracked laminates, Mech Mat **31**(5) 303-316 (May 1999), 10A639
Interfacial fatigue crack growth in foam core sandwich structures, Fatigue Fracture Eng Mat Struct **22**(2) 123-131 (1999), 10A828
Determination of the reference-axes for bimodulus cross-ply fibrous composites plates, J Struct Eng (India) **25**(2) 131-137 (Jul 1998), 11A532
Modeling of cracked thick metallic structure with bonded composite patch repair using three-layer technique, Composite Struct **45**(3) 185-193 (Jul 1999), 11A533
New theory for accurate thermal-mechanical flexural analysis of symmetric laminated plates, Composite Struct **45**(3) 227-232 (Jul 1999), 11A534
Validation of 2D calculations of free edge delamination in laminated composites, Composite Struct **45**(3) 233-240 (Jul 1999), 11A759
Beam analysis of angle-ply laminate mixed-mode bending specimens, Composites Sci Tech **59**(6) 937-945 (May 1999), 11A804
Averaged equations of the dynamics of thin multilayered packets of arbitrary structure with contrasting directions of anisotropy in the elastic layers, J Appl Math Mech **63**(1) 93-100 (1999), 12A625
Laminate theory of piezoresistance for composite laminates, Composites Sci Tech **59**(9) 1369-1373 (Jul 1999), 12A626
Mechanical response of linear viscoelastic composite laminates incorporating non-isothermal physical aging effects, Composites Sci Tech **59**(9) 1411-1427 (Jul 1999), 12A627
Nonlinear properties of high strength paperboards, J Eng Mat Tech **121**(3) 272-277 (Jul 1999), 12A628
Stress-strain analysis of a taper-taper adhesive-bonded joint under cylindrical bending, J Eng Mat Tech **121**(3) 374-380 (Jul 1999), 12A629
Theoretical and experimental evaluation of double-notch shear strength of G-10CR glass-cloth and epoxy laminates at cryogenic temperatures, J Eng Mat Tech **121**(3) 367-373 (Jul 1999), 12A630
Three dimensional moduli and saturation crack density for cross-ply laminates with transverse cracks, Int J Damage Mech **8**(3) 273-309 (Jul 1999), 12A631
Ultimate performance of GRP-laminates under in-plane biaxial loading, Heron **43**(4) 199-225 (1998), 12A632
Transverse matrix cracking in cross-ply laminates loaded in simple bending, Composites Part A Appl Sci and Manuf **30A**(8) 1003-1008 (1999), 12A835

256J. Micromechanics

Computational analysis of deep-drawing for composite materials considering the microstructure: Proposition of analytical method (Japanese), J Soc Mat Sci Japan **47**(6) 593-598 (Jun 1998), 1A634
Elastic-plastic micromechanical analysis of a cross-ply composite, Composites Sci Tech **58**(3-4) 527-537 (Mar-Apr 1998), 1A635
Hill condition and overall properties of composites, Arch Appl Mech **68**(6) 385-394 (Jul 1998), 1A636
Investigation of the micromechanics of the microbond test, Composites Sci Tech **58**(6) 907-914 (Jun 1998), 1A637
Inadequacy in a common micromechanics approach to analysis of damage evolution in composites, Int J Damage Mech **7**(3) 238-249 (Jul 1998), 1A889
Studies of structrue and strength of plain wrapped yarns, Fibres Textiles in E Europe **6**(1) 26-31 (Jan-Mar 1998), 2T667
Mechanics of Composite Materials (CRC Press, Boca Raton FL, 1997) 3R15
Micromechanics, Second Revised Edition (Elsevier Sci BV, Netherlands, 1998) 3N21
Limit analysis of unidirectional porous media, Mech Res Commun **25**(5) 535-542 (Sep-Oct 1998), 3T501
Comparison of micromechanics methods for effective properties of multiphase viscoelastic composites, Composite Struct **41**(3-4) 353-367 (Mar-Apr 1998), 3A568
Homogenization of nonlinear elastic composites: Method and algorithm, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 379-384 (Jun 1998), 3A569
Meso-mechanics and meso-structures: A matter of scale, J Thermoplastic Composite Mat **11**(5) 478-490 (Sep 1998), 3A570
Micromechanical modeling of stress distribution in undulated composites under axial loading, Mech Mat **30**(2) 83-90 (Oct 1998), 3A571
Micromechanics of fiber fragmentation in model epoxy composites reinforced with α-alumina fibers, Composites Part A Appl Sci and Manuf **29A**(11) 1353-1362 (1998), 3A819
Effect of the opening-closure of microcracks on the nonlinear behavior of a 2D C-SiC composite under cyclic loading, Int J Damage Mech **7**(4) 381-402 (Oct 1998), 3A836
High cycle fatigue damage evolution in unidirectional metal matrix composites using a micromechanical approach, Mech Mat **30**(2) 91-110 (Oct 1998), 3A850

Microstructural Characteristics of Fibre-Reinforced Composites (CRC Press, Boca Raton FL, 1998) 5N26
Microstructural constraints for creep in SiC-whisker-reinforced Al_2O_3, Acta Mat **46**(18) 6361-6373 (Nov 1998), 5A451
Modeling the effects of reinforcement distribution on the elastic properties of composite materials, Model Simulation Mat Sci Eng **6**(5) 587-602 (Sep 1998), 5A506
Automatic meshing of the computational micro-mechanics in metal material (Chinese), Chinese J Comput Mech **15**(4) 490-494 (Nov 1998), 5A514
Micromechanical modeling of load transfer in fibrous composites, Mech Mat **30**(4) 307-324 (Dec 1998), 5A515
Micromechanics of fiber-reinforced composites, Composites Sci Tech **58**(11) 1709-1859 (Nov 1998), 5T516
Micromechanics versus macromechanics: A combined approach for metal matrix composite constitutive modeling, Eur J Mech A **17**(6) 885-908 (Nov-Dec 1998), 5A517
Numerical simulation of microstructure and strength prediction for short-fiber-reinforced metal-matrix composites, Composites Sci Tech **58**(10) 1685-1695 (Oct 1998), 5A518
Constitutive equations of finite strain poroelasticity in the light of a micro-macro approach, Eur J Mech A **17**(6) 909-921 (Nov-Dec 1998), 5A1452
Characterization of nanoscale property variations in polymer composite systems - I: Experimental results, Composites Part A Appl Sci and Manuf **30A**(1) 75-83 (1999), 6A607
Characterization of nanoscale property variations in polymer composite systems - 2: Numerical modeling, Composites Part A Appl Sci and Manuf **30A**(1) 85-94 (1999), 6A608
Micromechanical design of ceramic matrix biocomposites: Effective field approach, Composite Struct **43**(2) 109-114 (Oct 1998), 6A609
Mechanical Behavior of Advanced Materials (ASME, New York, 1998) 7N20
Micromechanical model for linear homogenization of brick masonry, Mat Struct **32**(215) 22-30 (Jan-Feb 1999), 7A535
Micromechanics approximation for the effective thermoelastic moduli of multi-phase composite materials, Mech Mat **31**(2) 149-159 (Feb 1999), 7A536
Characterization of electrostatically self-assembled nanocomposite thin films, Smart Mat Struct **8**(1) 100-105 (Feb 1999), 8A597
Micro-macroscopic analysis for cyclic plasticity of dual-phase materials, J Appl Mech **66**(1) 124-136 (Mar 1999), 8A598
Micromechanisms in tension-compression fatigue of composite laminates containing transverse plies, Composites Sci Tech **59**(2) 167-178 (Feb 1999), 8A599
Microstructure of 3D braided preforms, Composites Sci Tech **59**(3) 391-404 (Feb-Mar 1999), 8A600
Semi-analytical method for the calculation of the elastic micro-fields in plain weave fabric composites subjected to in-plane loading, J Composite Mat **33**(3) 221-266 (1999), 8A601
Study of stress concentrations in woven composites, J Reinforced Plastics Composites **18**(3) 198-214 (1999), 8A602
Load transfer from broken fibers in continuous fiber Al_2O_3-Al composites and dependence on local volume fraction, J Mech Phys Solids **47**(3) 465-502 (Mar 1999), 8A787
Microstructural engineering of ceramic-matrix layered composites: Effect of grain-size dispersion on single-phase ceramic strength, Composites Sci Tech **59**(2) 283-289 (Feb 1999), 8A788
Role of interface modification on the Mode I and Mode II fracture behavior of glass fabric-vinyl ester composites, Mat Manuf Processes **14**(1) 97-106 (1999), 8T792
Analytical and experimental methods for a fracture mechanics interpretation of the microbond test including the effects of friction and thermal stresses, Int J Adhesion Adhesives **19**(1) 59-70 (Feb 1999), 8A806
Topics in the Mathematical Modelling of Composite Materials (Birkhauser Boston, MA, 1997) 9R24
Dislocation pile-up model for the yield stress of a composite, Acta Mat **47**(5) 1635-1643 (Mar 1999), 9A600
Micromechanics model for 3D elasticity and failure of woven-fiber composite materials, Composites Sci Tech **59**(4) 505-517 (Mar 1999), 9A652
Micromechanics models for mechanical and thermomechanical properties of 3D through-the-thickness angle interlock woven composites, Composites Part A Appl Sci and Manuf **30A**(5) 637-648 (1999), 9A653
Multiphase model for materials reinforced by linear inclusions (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 7-12 (Jan 1999), 9A654
Plastic analysis of complex microstructure composites using the generalized method of cells, AIAA J **37**(4) 482-488 (Apr 1999), 9A655
Mesomechanical study of characteristics of elastoplastic tensile deformation of metal matrix composites, J Dalian Univ Tech **39**(2) 144-149 (Mar 1999), 10A589
Apparent properties of nonlinear heterogeneous bodies smaller than the representative volume, Acta Mech **134**(3-4) 123-134 (1999), 10A640
Estimates for the transverse shear modulus of unidirectional composites, Eur J Mech A **18**(2) 239-251 (Mar-Apr 1999), 10A641
Homogenization theory for time-dependent deformation of composites with periodic internal structures, JSME Int J Ser A **41**(3) 309-317 (Jul 1998), 10A642
Mechanical model for the prediction of the elastic properties of polymeric resins reinforced with liquid crystal polymers, J Reinforced Plastics Composites **18**(5) 390-412 (1999), 10A643
Micro-mechanical characteristics of fiber-matrix interfaces in composite materials, Composites Sci Tech **59**(5) 635-642 (Apr 1999), 10A644
Stiffness predictions for unidirectional short fiber composites: Review and evaluation, Composites Sci Tech **59**(5) 655-671 (Apr 1999), 10A645
A macromechanical damage model of fibrous laminated composites, Appl Composite Mat **6**(2) 99-199 (Mar 1999), 10A912
Hierarchical modeling of textile composite materials and structures by the homogenization method, Model Simulation Mat Sci Eng **7**(2) 207-231 (Mar 1999), 11A528
Micromechanical properties of cementitious composites, Mat Struct **32**(219) 388-393 (Jun 1999), 11A535
Averaged mechanical properties of prismatic lattice formed by ellipsoidal inclusions, Arch Appl Mech **69**(4) 240-256 (May 1999), 12A572
Modeling of fatigue microcracking kinetics in crossply composites and experimental validation, Composites Sci Tech **59**(9) 1349-1359 (Jul 1999), 12A778
Micromechanics-based FE model for compressive failure of notched uniply composite laminates under remote biaxial loads, J Eng Mat Tech **121**(3) 360-366 (Jul 1999), 12A833
Theoretical and experimental analysis of the scarf joint bonded structure: Influence of the adhesive thickness on the micro-mechanical behavior, J Adhesion **70**(1-2) 13-32 (May 1999), 12A1025
Modeling of diffusion in a micro-cracked composite laminate using approximate solutions, J Composite Mat **33**(10) 872-905 (1999), 12A1431

256L. Macroscopic characterization

High strain rate superplasticity in metal matrix composites: The role of load transfer, Acta Mat **46**(11) 3937-3948 (Jul 1998), 1A566
Determination of the microtexture of reinforced thermoplastics by image analysis, Composites Sci Tech **58**(3-4) 377-387 (Mar-Apr 1998), 1A638
Constitutive theory for porous composite materials, Int J Solids Struct **35**(34-35) 4587-4596 (Dec 1998), 3A2
Transverse shear modulus of fiber-reinforced composites (Chinese), J Shanghai Jiaotong Univ **32**(8) 97-101 (Aug 1998), 4A605
Abrasion behavior of natural rubber reinforced with aramid short fiber (Chinese), J Xi'an Jiaotong Univ **32**(10) 88-91 (1998), 4A607
Effect of fabric pre-stretching on the tensile properties of knitted fabric composites, Adv Composites Letters **7**(3) 87-91 (1998), 4A608
Generalized two-phase mixture model and its application to composite ground, Memoirs Fac Eng Kyushu Univ **58**(2) 83-109 (Jun 1998), 4A609
Non-quadratic plasticity model suitable for metal matrix composites, J Composite Mat **32**(23) 2156-2176 (1998), 5A472
Effect of loading rate on the compressive strength of an AS4-PEEK composite, J Appl Mech **65**(4) 1056-1058 (Dec 1998), 5T519
High fiber volume fraction injection molding of carbon fiber reinforced polyetheretherketone in order to raise mechanical properties, Polymers and Polymer Composites **6**(5) 279-286 (1998), 5A520
Resin-hardener ratio as a processing parameter for modifying the mechanical behavior of epoxy-matrix and glass microsphere composites, Composites Sci Tech **58**(10) 1593-1598 (Oct 1998), 5A521
Theoretical approach to the thermal transient mechanical loss in Mg matrix composites, Acta Mat **46**(17) 6103-6114 (Nov 1998), 5A522
Dense-porous layered hydroxylapatite ceramic for orthopedic device coating prepared by tape casting technique, Adv Performance Mat **5**(3) 171-181 (Dec 1998), 6A610
Compression molding of glass and polypropylene composites for optimized macro- and micro-mechanical properties - 1: Commingled glass and propropylene, Composites Sci Tech **58**(12) 1879-1898 (Dec 1998), 6A825
Manufacturing and property analysis of a novel class of 3D woven composites, J Thermoplastic Composite Mat **12**(1) 70-82 (Jan 1999), 6A827
Processing effects on the engineering properties of cast metal-matrix composites, Adv Performance Mat **5**(3) 213-255 (Dec 1998), 6A828
Mechanical properties and fracture behavior of layered 6061-SiC_p composites produced by spray atomization and co-deposition, Acta Mat **47**(1) 43-53 (Dec 1998), 6A936
Bounds for the elastic shear moduli of isotropic and quasi-symmetric composites, and exact modulus of the coated sphere assemblage, Math Mech Solids **4**(1) 57-69 (Mar 1999), 7A537
Elastic property estimates of a unidirectional discontinuous fiber composite, Composites Sci Tech **59**(1) 113-122 (Jan 1999), 7A538
Comparison of static properties of 2D and 3D woven fabric reinforced composites, J Composite Tech Res **21**(1) 33-36 (Jan 1999), 8A603
Elastic constants of transversely isotropic, quasi-symmetric composites, J Appl Mech **66**(1) 262-264 (Mar 1999), 8A604
Mechanical and electromechanical properties of calcium-modified lead titanate-poly(vinylidene fluoride-trifluoroethylene) 0 - 3 composites, Smart Mat Struct **8**(1) 57-63 (Feb 1999), 8A605
Mechanical properties of untreated jute fabric-reinforced polyester composites, Composites Part A Appl Sci and Manuf **30A**(3) 277-284 (1999), 8A606
Size and scale effects in composites - I: Literature review, Composites Sci Tech **59**(2) 209-220 (Feb 1999), 8A607
Size and scale effects in composites - II: Unidirectional laminates, Composites Sci Tech **59**(2) 221-233 (Feb 1999), 8A608
Size and scale effects in composites - III: Woven-roving laminates, Composites Sci Tech **59**(2) 235-251 (Feb 1999), 8A609
Studies on the variations in compression strengths of graphite powders bearing glass-epoxy composites exposed to human conditions, J Reinforced Plastics Composites **18**(3) 224-232 (1999), 8A610
Thermoelastic disc test for the mechanical characterization of fiber-reinforced molded composites: Application, Composites Sci Tech **59**(3) 379-389 (Feb-Mar 1999), 8A611
Effect of aspect ratio on buckling of composite plates, Composites Sci Tech **59**(3) 439-445 (Feb-Mar 1999), 8A655
Fatigue behavior of metal-matrix composites under single overloads, Fatigue Fracture Eng Mat Struct **21**(12) 1503-1511 (1998), 8A742
Fatigue lifetime of glass fabric-epoxy composites, Composites Part A Appl Sci and Manuf **30A**(3) 299-304 (1999), 8A744
Effective behavior and dynamic response modeling of electro-rheological and magneto-rheological fluid composites, Smart Mat Struct **8**(1) 106-115 (Feb 1999), 8A961
Effective elastic properties in anisotropic composites with ellipsoidal inclusions, J Composite Mat **33**(6) 498-524 (1999), 9A656
Effects of post-cure on the mechanical properties of woven glass-polyester composite by macro and micro-mechanical methods, Sci Eng Comp Mat **8**(1) 25-34 (1999), 9A657
Jute sack cloth reinforced polypropylene composites: Mechanical and sorption studies, J Reinforced Plastics Composites **18**(4) 346-372 (1999), 9A658
Stable optimal design of 2D elastic, Control and Cybernetics **27**(2) 265-282 (1998), 9A659
Strength degradation during fatigue of unidirectional and cross-ply SCS-6/Ti-15-3 composites, Int J Fatigue **21**(3) 215-223 (Mar 1999), 9A813
Accommodation helper mechanism for superplasticity in metal matrix composites, Acta Mat **47**(6) 1915-1922 (Apr 1999), 10A557
Ultimate properties of unidirectional fiber composites, Composites Sci Tech **59**(5) 625-634 (Apr 1999), 10A646
Mechanical behavior of cellular core for structural sandwich panels, Composites Part A Appl Sci and Manuf **30A**(6) 767-779 (1999), 10A695
Variational bounds on the effective moduli of anisotropic piezoelectric composites, Arch Mech **50**(4) 675-689 (1998), 10A760
Compression molding of glass and polypropylene composites for optimized macro- and micro-mechanical properties - II: Glass-mat-reinforced thermoplastics, Composites Sci Tech **59**(5) 709-726 (Apr 1999), 10A812
PMR polyimide composites reinforced with 3D carbon fiber fabrics, Polymers and Polymer Composites **7**(2) 105-115 (1999), 11A536
Statistical analysis of data from truncated fatigue life and corresponding residual strength experiments for polymer matrix composites, Int J Fatigue **21**(6) 581-585 (Jul 1999), 11A770
Machined surface properties of C-C composite material - Part I: Machined surface properties and built-up residue on plain-woven composite surface (Japanese), J Japan Soc Precision Eng **65**(5) 719-724 (May 1999), 12T541
Influence of moduli slope of a linearly graded matrix on the bulk moduli of some particle- and fiber-reinforced composites, J Elast **53**(1) 1-22 (1998), 12A610
Effects of fiber coating (size) on properties of glass fiber-vinyl ester composites, Composites Part A Appl Sci and Manuf **30A**(8) 1009-1015 (1999), 12A633
Macrostructural engineering of ceramic-matrix layered composites, Composites Sci Tech **59**(9) 1429-1437 (Jul 1999), 12A634
Mechanical properties of glass-fiber mat-PMMA functionally gradient composite, Composites Part A Appl Sci and Manuf **30A**(9) 1045-1053 (1999), 12A635
Mechanical properties of long-fiber thermoplastic composites with laser drilled microperforations - 1: Effect of perforations in consolidated material, Composites Sci Tech **59**(8) 1169-1180 (Jun 1999), 12A636
Mechanical properties of long-fiber thermoplastic composites with laser drilled microperforations - 2: Effect of prior plastic strain, Composites Sci Tech **59**(8) 1181-1187 (Jun 1999), 12A637
Prediction of elastic moduli of porous materials with equivalent inclusion method, J Reinforced Plastics Composites **18**(7) 594-605 (1999), 12A638

256N. Dynamic behavior

Linear transient analysis of rectangular laminates using spline finite strips, Composite Struct **41**(1) 57-66 (Jan 1998), 1A21
Experimental study of resonance and dissipative properties of cylindrical shell of glass fiber reinforced plastic filled with liquid, Prikl Mekh (Appl Mech) **34**(2) 39-42 (1998), 1T160
Steady-state torsional oscillations of multilayer truncated cones, Prikl Mekh (Appl Mech) **34**(3) 64-68 (1998), 1A168
Free-vibration analysis of doubly connected super-elliptical laminated composite plates, Composites Sci Tech **58**(3-4) 435-445 (Mar-Apr 1998), 1A169
Impact behavior of laminated composites: Physical basis for FE analysis, Composites Sci Tech **58**(3-4) 463-478 (Mar-Apr 1998), 1A252
Computation of homogenized coefficients for a viscoelastic composite reinforced with spherical inclusions, J Composite Mat **32**(14) 1297-1310 (1998), 1A558
Analysis of free damped vibrations of laminated composite conical shells, Composite Struct **41**(1) 39-47 (Jan 1998), 1A639
Mechanical behavior of pultruded sections submitted to low-velocity impact, Composites Sci Tech **58**(6) 839-854 (Jun 1998), 1A640
Modeling interply debonding in laminated architectural glass subject to low velocity impact, Struct Eng and Mech **6**(5) 485-496 (Jul 1998), 1A641
Study of the impact properties of composites consisting of surface-modified glass fibers in vinyl ester resin, Composites Sci Tech **58**(6) 979-985 (Jun 1998), 1A642
Transient dynamics of laminated beams: An evaluation with a higher-order refined theory, Composite Struct **41**(1) 1-11 (Jan 1998), 1A643
Effects of stacking sequence on the impact resistance in composite laminates - Part 1: Parametric study, Composite Struct **41**(1) 67-77 (Jan 1998), 1A645
Transient response of stiffened composite submersible hull subjected to underwater explosive shock, Composite Struct **41**(1) 27-37 (Jan 1998), 1A995
Assessment of the impact response of knit-knit stitch fabric reinforced epoxy composites, Sci Eng Comp Mat **7**(3) 269-277 (1998), 2A302
Response to impacts in composites containing foam, J Reinforced Plastics Composites **17**(14) 1281-1291 (1998), 2A303
Dynamic compressive behavior of thick composite materials, Exp Mech **38**(3) 172-180 (Sep 1998), 2A668
Oscillations of half-bounded and bounded laminated bodies of stochastic structure (Russian), Prikl Mekh (Appl Mech) **33**(5) 13-19 (1998), 2T669
Active vibration control of intelligent stiffened laminates using smart piezoelectric materials by the FEM, J Reinforced Plastics Composites **17**(16) 1472-1493 (1998), 3A29
Stability behavior of rotating composite shafts under axial compressive loads, Composite Struct **41**(3-4) 253-263 (Mar-Apr 1998), 3A99
Free axisymmetric vibration of transversely isotropic laminated circular plates, Acta Mech Solida Sinica **11**(3) 209-215 (1998), 3A159
Comparative evaluation of impact performance of laminate composites containing impact induced-mechanically inserted defects, J Reinforced Plastics Composites **17**(16) 1463-1471 (1998), 3A572
Dynamic poroelasticity of thinly layered structures, Int J Solids Struct **35**(34-35) 4739-4751 (Dec 1998), 3A573
Damage threshold of laminated glass structures, Int J Impact Eng **21**(9) 737-746 (Oct 1998), 4A228
Experiment and analysis on the response of curved laminated composite panels subjected to low velocity impact, Int J Impact Eng **21**(9) 711-736 (Oct 1998), 4A229
Partitioning energy during low-velocity impact of RTM fiber-reinforced composites, Int J Impact Eng **21**(9) 773-789 (Oct 1998), 4A230

Effects of braiding parameters on energy absorption capability of triaxially braided composite tubes, Int J Fracture **88**(4) 1964-1982 (1998), 4A610
Existence of surface waves and the propagation of plate waves in pre-stressed fiber-reinforced composites, J Mech Phys Solids **46**(9) 1581-1612 (Sep 1998), 4A611
Finite element free vibration analysis of smart laminated composite beams and plates, J Intelligent Mat Syst Struct **9**(1) 20-28 (Jan 1998), 4A632
Forced vibration of unsymmetric laminated composite beams under the action of moving loads, Composites Sci Tech **58**(10) 1675-1684 (Oct 1998), 5A152
Modern practice in stress and vibration analysis, Int J Mech Sci **41**(4-5) 373-594 (Apr-May 1999), 5A156
Correlation between modeling and measurement of material parameters for thermoplastic materials under high-speed impact events, J Reinforced Plastics Composites **17**(18) 1625-1635 (1998), 5A215
Effects of projectile shape on laminated composite perforation, Composites Sci Tech **58**(10) 1629-1639 (Oct 1998), 5A216
Low velocity perforation behavior of polymer composite sandwich panels, Int J Impact Eng **21**(10) 855-879 (Nov 1998), 5A217
Size effects on impact response of composite laminates, Int J Impact Eng **21**(10) 837-854 (Nov 1998), 5A218
Free vibration of thin-walled closed-section composite beams with optimum and near-optimum coupling, J Thermoplastic Composite Mat **12**(1) 2-12 (Jan 1999), 6A143
Use of the free vibration spectrum to detect delamination in thick composites, J Composite Mat **33**(1) 54-72 (1998), 6A185
International Workshop on Experimental Techniques in the Analysis of Composite Structures, Composite Struct **42**(4) 299-382 (Aug 1998), 6A623
Reduction of tensile strength in angle-ply composite laminates due to low-velocity impact, J Reinforced Plastics Composites **18**(1) 63-85 (1999), 6A938
Confined compression of elastic adhesives at high rates of strain, Int J Adhesion Adhesives **18**(6) 375-383 (Dec 1998), 6A1118
Contact behavior between laminated composites and rigid impactors, Composite Struct **43**(3) 165-178 (Nov 1998), 7A521
Transient response of submerged orthotropic cylindrical shells exposed to underwater shock, Composite Struct **43**(3) 179-193 (Nov 1998), 7A575
Free vibration behavior of helically wound cylindrical shells, Composite Struct **44**(1) 55-62 (Jan 1999), 8A156
Free vibration analysis of orthogonal-woven fabric composites, Composites Part A Appl Sci and Manuf **30A**(3) 285-297 (1999), 8A174
Effect of explosives on polymer matrix composite laminates, Composites Part A Appl Sci and Manuf **30A**(3) 181-190 (1999), 8A229
Vibration and actuation characteristics of composite structures with a bonded piezo-ceramic actuator, Smart Mat Struct **8**(1) 136-143 (Feb 1999), 8A612
Influence of loading rate on the interlaminar fracture properties of high performance composites: A review, Appl Mech Rev **52**(6) 199-212 (Jun 1999), 8A785
Low velocity impact damage characteristics of Z-fiber reinforced sandwich panels - An experimental study, Composite Struct **43**(4) 275-288 (Dec 1998), 8A815
Free vibration analysis of cantilevered laminated trapezoidal plates, Sci Eng Comp Mat **8**(1) 1-9 (1999), 9A155
Experimental analysis of vibration characteristics of an edge-cracked composite plate by ESPI method, Int J Fracture **91**(4) 311-321 (1998), 9A177
Impact damage analysis of composite plates, Int J Impact Eng **22**(4) 435-447 (Apr 1999), 9A243
Low-velocity impact response of cross-ply laminated sandwich composites with hollow and foam-filled Z-pin reinforced core, J Composite Tech Res **21**(2) 84-97 (Apr 1999), 9A244
Post-impact crush of hybrid braided composite tubes, Int J Impact Eng **22**(4) 419-433 (Apr 1999), 9A245
Static and low-velocity impact response characteristics of pultruded hybrid glass-graphite-epoxy composite beams, J Thermoplastic Composite Mat **12**(2) 121-132 (Mar 1999), 9A246
One-component composites as functionally gradient materials, J Thermoplastic Composite Mat **12**(3) 188-200 (May 1999), 9A660
Recent research on enhancement of damping in polymer composites, Composite Struct **44**(2-3) 89-98 (Feb-Mar 1999), 9A661
Study of the impact performance of fiber reinforced composite laminated plates due to various relative fiber contents and densities, J Thermoplastic Composite Mat **12**(3) 227-239 (May 1999), 9A662
Elastic response of functionally graded cylindrical shells to low-velocity impact, Int J Impact Eng **22**(4) 397-417 (Apr 1999), 9A695
Large amplitude vibration of polymer composite stiffened laminates by the FEM, J Reinforced Plastics Composites **18**(5) 421-436 (1999), 10A208
Energy absorption characteristics of stitched composite sandwich panels, J Composite Mat **33**(8) 712-728 (1999), 10A647
Optimization of composite wind-tunnel wing models for frequency, flutter, and divergence, Aeronaut J **103**(1020) 105-111 (Feb 1999), 10A648
New approach for improving ballistic performance of composite armor, Exp Mech **39**(2) 103-110 (Jun 1999), 11A253
Determination of the dynamic response of brittle composites by the use of the split Hopkinson pressure bar, Composites Sci Tech **59**(7) 1097-1107 (May-Jun 1999), 11A537
Vibration of delaminated thin composite plates, Composites Part A Appl Sci and Manuf **30A**(8) 989-995 (1999), 12A160
Constraint effects on energy absorption in unidirectional PMC tubes, J Composite Mat **33**(9) 774-793 (1999), 12A639
Influence of surface treatment of glass fibers on the dynamic mechanical properties of epoxy resin composites, Composites Part A Appl Sci and Manuf **30A**(8) 997-1002 (1999), 12A640
Large internal stresses in particle-reinforced composites subjected to dynamic loads, Composites Sci Tech **59**(9) 1361-1367 (Jul 1999), 12A641
Loss energy of composite materials - Part II: Impact loading, J Test Eval **27**(1) 36-41 (Jan 1999), 12A642

256Q. Structural applications

Mechanics of Composite Materials, Second Edition (Taylor & Francis, Philadelphia, PA, 1999) 1N20
Linear transient analysis of rectangular laminates using spline finite strips, Composite Struct **41**(1) 57-66 (Jan 1998), 1A21
Cylindrical bending of laminated cylindrical shells using a modified zig-zag theory, Struct Eng and Mech **6**(5) 497-516 (Jul 1998), 1A644
Effects of stacking sequence on the impact resistance in composite laminates - Part 1: Parametric study, Composite Struct **41**(1) 67-77 (Jan 1998), 1A645
Local buckling of fiber-reinforced polymeric structural members under linearly-varying edge loading - Part 1: Theoretical formulation, Composite Struct **41**(1) 79-86 (Jan 1998), 1A646
Modeling and optimal design of composite-reinforced wood railroad crosstie, Composite Struct **41**(1) 87-96 (Jan 1998), 1A647
Piezothermoelastic solution for angle-ply laminated plate in cylindrical bending, Struct Eng and Mech **6**(5) 529-542 (Jul 1998), 1A648
Process-induced stress analysis of composite laminates using semi-analytical Hamiltonian method, Composite Struct **41**(1) 49-55 (Jan 1998), 1A649
Stress concentration in the composite piezoceramic plate with a hole, Prikl Mekh (Appl Mech) **34**(1) 98-102 (1998), 1A650
Local behavior of discretely stiffened composite plates and cylindrical shells, Composite Struct **41**(1) 13-26 (Jan 1998), 1A696
Efficient FE modeling of composite beams and plates using higher-order theories and an accurate composite beam element, Composite Struct **41**(2) 159-165 (Feb 1998), 2A31
Finite element modeling and optimization for controlling the residual thermal stresses of laminated composite tubes, Composite Struct **41**(2) 151-157 (Feb 1998), 2A32
Design of dimensionally stable composites by evolutionary optimization, Composite Struct **41**(2) 97-111 (Feb 1998), 2A670
Effect of embedded optical fibers on the fatigue behavior of composite plates, Composite Struct **41**(2) 113-120 (Feb 1998), 2A671
Effects of stacking sequence on the impact resistance in composite laminates - Part 2: Prediction method, Composite Struct **41**(2) 177-186 (Feb 1998), 2A672
Experimental investigation of composite beams with piezoelectric actuation and debonding, Smart Mat Struct **7**(4) 502-511 (Aug 1998), 2A673
Prediction and measurement of nonlinear strain response of composite plates, Composite Struct **41**(2) 137-149 (Feb 1998), 2A674
Research for the thermoelastic response of thick orthotropic laminates (Chinese), Chinese J Comput Mech **15**(3) 306-315 (Aug 1998), 2T675
Supersonic flutter of composite skin panels of repeated-sublaminate layup, Composite Struct **41**(2) 121-135 (Feb 1998), 2A676
Stressed state of the composite transversally-isotropic spherical shell with a round hole (Russian), Prikl Mekh (Appl Mech) **34**(5) 76-85 (1998), 2A703
Identification approach to estimate buckling load of damaged composite plates, AIAA J **36**(8) 1479-1485 (Aug 1998), 2A731
Effectiveness of optimal design with respect to computational models for laminated composite structures weakened by holes, Struct Optim **16**(1) 58-67 (Aug 1998), 2A927
Finite element analysis and control simulation of laminate shell containing piezoelectric patches, Chinese J Comput Mech **15**(3) 329-337 (Aug 1998), 2T941
Evaluation of approaches for determining design allowables for bolted joints in laminated composites, Composite Struct **41**(2) 167-176 (Feb 1998), 2A969
Free vibration of composite circular cylindrical shells with random material properties - Part I: General theory, Composite Struct **41**(3-4) 331-338 (Mar-Apr 1998), 3A170
Nonlinear viscoelastic analysis of composite plates and shells, Composite Struct **41**(3-4) 265-272 (Mar-Apr 1998), 3A517
Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part I: Material considerations, Composite Struct **42**(1) 33-41 (May 1998), 3A518
Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part II: Structural analysis, Composite Struct **42**(1) 43-51 (May 1998), 3A519
Analysis of unreinforced masonry walls and evaluation of retrotting schemes for URM structures, Struct Eng and Mech **6**(7) 801-815 (Oct 1998), 3A574
Australian developments in the analysis of composite structures with material and geometric nonlinearities, Composite Struct **41**(3-4) 197-214 (Mar-Apr 1998), 3A575
Laminated beams subjected to transverse load, Strain **34**(3) 91-94 (Aug 1998), 3A600
Systematic study on the shear transfer capacities of embossed steel plates for composite construction (Japanese), Proc JSCE **598**(I-44) 183-202 (Jul 1998), 3A612
Analysis of composite plates using various plate theories - Part 2: FE model and numerical results, Struct Eng and Mech **6**(7) 727-746 (Oct 1998), 3A615
Experimental study of the influence of plate end anchorage of carbon fiber composite plates used to strengthen reinforced concrete beams, Composite Struct **42**(2) 175-188 (Jun 1998), 3A618
Influence of boundary conditions for a thin laminated rotating cylindrical shell, Composite Struct **41**(3-4) 215-228 (Mar-Apr 1998), 3A620
Three-dimensional wave propagation in composite cylindrical shells, Composite Struct **42**(2) 153-167 (Jun 1998), 3A622
Shear properties of a sandwich composite containing defects, Composite Struct **42**(2) 107-118 (Jun 1998), 3A628
Effect of multiple delamination on postbuckling behavior of laminated composite plates, Composite Struct **42**(1) 1-12 (May 1998), 3A769
Nonlinear analysis of bonded composite patch repair of cracked aluminum panels, Composite Struct **41**(3-4) 303-313 (Mar-Apr 1998), 3A820
Progressive failure of symmetric laminates under in-plane shear - II: Negative shear, Struct Eng and Mech **6**(7) 757-772 (Oct 1998), 3A821
Shape-optimium design of a bi-material single-lap joint, Composite Struct **41**(3-4) 315-330 (Mar-Apr 1998), 3A884
Experimental study on the effect of fiber reinforced rubber-rolled pin of the bridge restrainer plate system (Japanese), Proc JSCE **598**(I-44) 333-346 (Jul 1998), 3A908
Strengthening Structural Systems Using Externally Bonded FRP Composites (CRC Press, Boca Raton FL, 1998) 4N19
Co-cured extension-twist coupled damped composite strut, J Composite Mat **32**(21) 1914-1932 (1998), 4A179
Civil infrastructural applications of composite materials, Composites Sci Tech **58**(8) 1259-1380 (Aug 1998), 4T612
Fire resistance of composite floor slabs using a model fire test facility, Eng Struct **21**(2) 176-182 (Feb 1999), 4A613
Natural frequency characteristics of composite plates with random properties, Struct Eng and Mech **6**(6) 659-671 (Sep 1998), 4A614
Analysis of composite plates using various plate theories - Part 1: Formulation and analytical solutions, Struct Eng and Mech **6**(6) 583-612 (Sep 1998), 4A649
Tests on slender composite columns, J Construct Steel Res **49**(1) 25-41 (Jan 1999), 4A672
Aspects of composite circular sewer linings under installation conditions, Eng Struct **21**(1) 5-15 (Jan 1999), 4A675
Stability and initial supercritical behavior of shells of composites: Survey (Russian), Prikl Mekh (Appl Mech) **34**(6) 3-38 (1998), 4A679
Qualitative criteria for anti-pumping geocomposites, Geotextiles Geomembranes **16**(4) 221-245 (Aug 1998), 4A711
General approach forcing convexity of ply angle optimization in composite laminates, Struct Optim **16**(2-3) 201-211 (Oct 1998), 4A871
Optimization of symmetric laminates with internal line supports for maximum buckling load, Struct Eng and Mech **6**(6) 633-641 (Sep 1998), 4A882
Bond stress system of composite concrete-timber beams, Mat Struct **31**(213) 634-640 (Nov 1998), 5A523
Diagonal tension and failure study of stiffened stitched composite panels, J Reinforced Plastics Composites **17**(18) 1636-1650 (1998), 5A524
Experimental study of the behavior of connections for pultruded GFRP I-beams and rectangular tubes, Composite Struct **42**(3) 281-290 (Jul 1998), 5A525
Impact performance of pultruded beams for highway safety applications, Composite Struct **42**(3) 231-237 (Jul 1998), 5A526
Stress concentration and local behavior of prestressed composite laminates-sandwich plates with overhangs in cylindrical bending, Composite Struct **42**(3) 203-215 (Jul 1998), 5A527
Identification of elastic properties of composites by method of planning of experiments, Composite Struct **42**(3) 257-263 (Jul 1998), 5A747
Fundamentals and applications of optical fiber Bragg grating sensors to textile structural composites, Composite Struct **42**(3) 217-229 (Jul 1998), 5A751
Introduction to Composite Materials Design (Taylor & Francis, Bristol PA, 1999) 6R15
Crashworthiness, Occupant Protection and Biomechanics in Transportation Systems - 1998 (ASME, New York, 1998) 6N20
Recent Advances in Mechanics of Aerospace Structures and Materials - 1998 (ASME, New York, 1998) 6N26
New FE for global modeling of delaminations in laminated beams, Finite Elements Anal Des **31**(2) 165-177 (Dec 1998), 6A51
Damping improvement of machine tool columns with polymer matrix fiber composite material, Composite Struct **43**(2) 155-163 (Oct 1998), 6A123
Viscoelastic response of composite overwrapped cylinders, J Thermoplastic Composite Mat **12**(1) 55-69 (Jan 1999), 6A543
Axisymmetric actuation of composite cylindrical thin shells with piezoelectric rings, Smart Mat Struct **7**(6) 843-850 (Dec 1998), 6A611
Characterization of impact in composite plates, Composite Struct **43**(1) 15-24 (Sep 1998), 6A612
Comparison of two cocured damped composite torsion shafts, Composite Struct **43**(2) 115-125 (Oct 1998), 6A613
Control of the composite wheel system (Russian), Prikl Mekh (Appl Mech) **34**(10) 93-99 (1998), 6T614
Determining effective contact stiffness between striker and composite shell, Composite Struct **43**(2) 137-145 (Oct 1998), 6A615
Effect of interference fits in composite pin-joints, J Thermoplastic Composite Mat **12**(1) 23-32 (Jan 1999), 6A616
Elastic behavior of a cross-ply composite pin-joint with clearance fits, J Thermoplastic Composite Mat **12**(1) 13-22 (Jan 1999), 6A617
Elastoplastic stress analysis in stainless steel fiber reinforced aluminum metal matrix laminated plates loaded transversely, Composite Struct **43**(2) 147-154 (Oct 1998), 6A618
Fatigue behavior and damage development of 3D woven sandwich composites, Composite Struct **43**(1) 35-45 (Sep 1998), 6A619
Finite elements method for the dynamic analysis of tapered composite poles, Composite Struct **43**(1) 25-34 (Sep 1998), 6A620
Higher order analysis of laminated composite strips with extension-twist coupling, Int J Solids Struct **36**(7) 1081-1098 (Mar 1999), 6A621
Interactions between numerical and experimental approaches in composite structure dynamics, Composite Struct **43**(2) 127-135 (Oct 1998), 6A622
International Workshop on Experimental Techniques in the Analysis of Composite Structures, Composite Struct **42**(4) 299-382 (Aug 1998), 6A623
Knowledge-based search framework for designing composite structures, Struct Optim **16**(4) 289-299 (Dec 1998), 6A624
Local buckling of the steel skin in lightweight composites induced by creep and shrinkage, Adv in Struct Eng **2**(1) 25-33 (Nov 1998), 6A625
Modal parameter evaluation of degraded adhesively bonded composite beams, Composite Struct **43**(1) 79-91 (Sep 1998), 6A626
Rate and architecture effects on progressive crush of braided tubes, Composite Struct **43**(2) 93-108 (Oct 1998), 6A627
Reliability analysis of mid-plane symmetric laminated plates using direct simulation method, Composite Struct **43**(1) 1-13 (Sep 1998), 6A628
Variable complexity design of composite fuselage frames by response surface techniques, Thin-Walled Struct **32**(4) 235-261 (Dec 1998), 6A629
One variant of FE approach to solution of plane problems of linear of composites elasticity (Russian), Prikl Mekh (Appl Mech) **34**(10) 73-83 (1998), 6T654
Mixed layer-wise models for multilayered plates analysis, Composite Struct **43**(1) 57-70 (Sep 1998), 6A669
Physically nonlinear problems of the theory of orthotropic composite shells with a cultivilinear hole (Russian), Prikl Mekh (Appl Mech) **34**(9) 28-32 (1998), 6A670

Estimation models and stability problems for shells from composition materials (Russian), Prikl Mekh (Appl Mech) **34**(10) 24-31 (1998), 6T697
Durability assessment of composite repairs bonded to aircraft structures, J Adhesion Sci Tech **13**(1) 127-148 (1999), 6A924
Integrity of bonded joints in large composite pipes, Int J Adhesion Adhesives **18**(6) 421-429 (Dec 1998), 6A933
Use of silane coupling agents to enhance the performance of adhesively bonded alumina to resin hybrid composites, Int J Adhesion Adhesives **18**(6) 431-434 (Dec 1998), 6A1120
Finite lateral compression of an elastic-plastic fiber-reinforced tube: Loading solutions, J Mech Phys Solids 47(2) 371-395 (Feb 1999), 7A511
Three-dimensional stress analysis of bolted single-lap composite joints, Composite Struct **43**(3) 195-216 (Nov 1998), 7A539
Variational approach for straight edge effect stresses in laminated composites, Composite Struct **43**(3) 243-254 (Nov 1998), 7A540
Variational approach for straight edge effect stresses in laminated composites, Composite Struct **43**(3) 243-254 (Nov 1998), 7A540
Composite beam behavior in braced frames, J Construct Steel Res **49**(3) 271-289 (Mar 1999), 7A555
Deflections of partially composite beams with linear connector density, J Construct Steel Res **49**(3) 241-254 (Mar 1999), 7A557
Deflections of partially composite continuous beams: A simple approach, J Construct Steel Res **49**(3) 291-301 (Mar 1999), 7A584
Optimum design of composite plates using response surface method, Composite Struct **43**(3) 233-242 (Nov 1998), 7A814
Deflection control of laminated composite beams with piezoceramic layers: Closed form solutions, Composite Struct **43**(3) 217-231 (Nov 1998), 7A821
Technology and equipment for ultrasonic welding of polymer based composite structures, Russian Ultrasonics **28**(4) 145-155 (1998), 8T217
Carbon fiber polymer-matrix structural composite as semiconductor and concept of optoelectronic and electronic devices made from it, Smart Mat Struct **8**(1) 161-166 (Feb 1999), 8A575
Adhesively bonded repairs to primary aircraft structure, Int J Adhesion Adhesives **19**(1) 1-8 (Feb 1999), 8A613
Scaling crucial to integrated product development of composite aerospace structures - Part 1, Composites Part A Appl Sci and Manuf **30A**(3) 385-393 (1999), 8A614
Study of the effect of in-plane and interlaminar stresses on damping in fluid-filled laminated composite cylinders, Composite Struct **43**(4) 301-320 (Dec 1998), 8A615
Generalized multilength scale nonlinear composite plate theory with delamination, Int J Solids Struct **36**(20) 3015-3050 (Jul 1999), 8A629
Optimum design of laminated composite foam-filled sandwich plates subjected to strength constraint, Int J Solids Struct **36**(19) 2865-2889 (Jul 1999), 8A638
Accurate equations for laminated composite deep thick shells, Int J Solids Struct **36**(19) 2917-2941 (Jul 1999), 8A641
Assessing stress state and mean load effects on the fatigue response of adhesively bonded joints, Int J Adhesion Adhesives **19**(1) 19-27 (Feb 1999), 8A737
Low velocity impact and delamination buckling behavior of composite laminates with embedded optical fibers, Smart Mat Struct **8**(1) 41-48 (Feb 1999), 8A759
Optimal laminate design subject to single membrane loads, Struct Optim 17(1) 65-73 (Feb 1999), 8A833
Design and Optimization of Laminated Composite Materials (Wiley, New York, 1999) 9R21
Computation of interface stresses by FEs for sandwich materials, Composite Struct **44**(4) 289-295 (Apr 1999), 9A24
Shear deformable user FE for MARC to model composites with taper, Composite Struct **44**(2-3) 137-143 (Feb-Mar 1999), 9A31
Graphite-epoxy honeycomb core sandwich permeability under mechanical loads, Composite Struct **44**(4) 253-261 (Apr 1999), 9A649
Compression, flexure and shear properties of a sandwich composite containing defects, Composite Struct **44**(4) 263-278 (Apr 1999), 9A663
Demonstration of a dynamic polymer composite connector, J Thermoplastic Composite Mat 12(2) 143-153 (Mar 1999), 9A664
Design, analysis, and optimization of composite leaf springs for light vehicle applications, Composite Struct **44**(2-3) 195-204 (Feb-Mar 1999), 9A665
Effect of thickness on the large elastic deformation behavior of laminated shells, Composite Struct **44**(2-3) 117-128 (Feb-Mar 1999), 9A666
Fabrication, analysis, and experimentation of a practically constructed laminated composite I-beam under pure bending, J Thermoplastic Composite Mat 12(3) 177-187 (May 1999), 9A667
Nonhomogeneous response of cross-ply laminated elastic plates using a higher-order theory, Composite Struct **44**(4) 297-305 (Apr 1999), 9A668
Reinforced of CFRP structures by tailored fiber placement, Polymers and Polymer Composites **6**(8) 499-504 (1998), 9A669
Structural testing of DARPA-BIR composite army bridge treadway, Composite Struct **44**(2-3) 99-115 (Feb-Mar 1999), 9A670
Composite beam analysis with arbitrary cross section, Composite Struct **44**(2-3) 189-194 (Feb-Mar 1999), 9A684
Examination of a higher order theory for sandwich beams, Composite Struct **44**(2-3) 169-177 (Feb-Mar 1999), 9A686
Experimental response of glass-reinforced plastic cylinders under axial compression, Marine Struct **11**(9) 347-371 (Nov 1998), 9A714
Thermal buckling analysis of thick anisotropic composite plates by finite strip method, Struct Eng and Mech 7(5) 473-484 (May 1999), 9A719
Life extension of acoustically fatigued panels using add-on dampers, Composite Struct **44**(2-3) 179-188 (Feb-Mar 1999), 9A818
Response of composite beam under low-velocity impact of multiple masses, Composite Struct **44**(2-3) 205-220 (Feb-Mar 1999), 9A943
Durability characteristics of concrete columns confined with advanced composite materials, Composite Struct **44**(2-3) 155-161 (Feb-Mar 1999), 9A987
Design of top concrete slabs of composite space trusses, Struct Eng and Mech 7(3) 319-330 (Mar 1999), 9A997
Effect of fiber orientation and distribution on the tooth stiffness of a polymer composite gear, J Reinforced Plastics Composites **18**(5) 454-463 (1999), 10A649
Failure mechanism-based approach for design of composite laminates, Composite Struct **45**(1) 71-80 (May 1999), 10A650
Flexural analysis of laminated composite plates, Composite Struct **45**(1) 51-69 (May 1999), 10A651
Fracture mechanics using a 3D composite element, Composite Struct **45**(1) 29-39 (May 1999), 10A652
Manufacturing and ultimate mechanical performance of carbon fiber-reinforced epoxy composite suspension push-rods for a Formula 1 racing car, Fatigue Fracture Eng Mat Struct **22**(1) 25-32 (1999), 10A653
Mechanics of composite materials with curved structures and elements of constructions: Review (Russian), Prikl Mekh (Appl Mech) **34**(11) 3-15 (1998), 10T654
Natural frequencies of a multilayer composite plate with shape memory alloy wires, Finite Elements Anal Des **32**(2) 71-83 (Apr 1999), 10A655
Shear-lag model for failure simulations of unidirectional fiber composites including matrix stiffness, Mech Mat **31**(5) 331-350 (May 1999), 10A656
Termination and connection methods for optical fibers embedded in aerospace composite components, Smart Mat Struct **8**(2) 269-273 (Apr 1999), 10A657
Assessment of shell theories for buckling of circular cylindrical laminated composite panels loaded in axial compression, Int J Solids Struct **36**(25) 3799-3820 (Sep 1999), 10A720
Buckling analysis of a laminated cylindrical shell under torsion subjected to mixed boundary conditions, Int J Solids Struct **36**(25) 3821-3835 (Sep 1999), 10A722
Thermo-elastic response of monolithic and composite plates to a thermal shock, Mech Mat **31**(5) 351-365 (May 1999), 10A1002
Strength of bolted and bonded single-lapped composite joints in tension, J Composite Mat **33**(7) 640-666 (1999), 10A1060
Behavior of Sandwich Structures of Isotropic and Composite Materials (Technomic, Lancaster PA, 1999) 11R15
Effective elastic properties of triangular grid structures, Composite Struct **45**(2) 131-145 (Jun 1999), 11A30
Elastic response of a typical CFRP payload fairing due to separation impulse, Composite Struct **45**(2) 147-154 (Jun 1999), 11A31
Stress analysis of a postbuckled laminated composite plate, Struct Eng and Mech 7(4) 377-386 (Apr 1999), 11A39
Application of ceramic-matrix composites to the automotive ceramic gas turbine, Composites Sci Tech **59**(6) 861-872 (May 1999), 11A538
Applications of thermoelastic stress analysis to composite materials, Strain **35**(2) 41-48 (May 1999), 11A539
Direct linear-elastic analysis of double symmetric bonded joints and reinforcements, Composites Sci Tech **59**(7) 1127-1137 (May-Jun 1999), 11A540
Impact damage prediction and failure analysis of heavily loaded, blade-stiffened composite wing panels, Composite Struct **45**(2) 81-103 (Jun 1999), 11A541
Interlaminar stresses at the free corners of a laminate, Composite Struct **45**(2) 155-162 (Jun 1999), 11A542
Laminated composite open profile sections: First order shear deformation theory, Composite Struct **45**(2) 105-114 (Jun 1999), 11A543
Fabrication and pressure testing of a gas-turbine component manufactured by a preceramic-polymer-impregnation method, Composites Sci Tech **59**(6) 853-859 (May 1999), 11A719
Composite wing optimization for enhancement of the rolling maneuver in subsonic flow, Struct Optim **17**(2-3) 95-103 (Apr 1999), 11A857
Design model to predict optimal two-material composite structures, Struct Optim **17**(2-3) 186-198 (Apr 1999), 11A858
Finite element method for predicting time-dependent deformations and damage accumulation in laminated composite bolted joints, J Composite Mat **33**(9) 794-826 (1999), 12A24
Performance of fiber-reinforced plastic tapered poles under lateral loading, J Composite Mat **33**(10) 941-960 (1999), 12A643
Spline FMS postbuckling analysis of shear-deformable rectangular laminates, Thin-Walled Struct **34**(2) 163-178 (Jun 1999), 12A669
Influence of bend-twist coupling on the shear buckling response of thin laminated composite plates, Thin-Walled Struct **34**(2) 97-114 (Jun 1999), 12A674
Fatigue behavior and size effect perpendicular to the grain of laminated Douglas fir veneer, Mat Struct **32**(218) 298-303 (May 1999), 12A779

256T. Ceramics, refractories, glasses

Nonlinear transient thermoelastic analysis of functionally graded ceramic-metal plates, Int J Solids Struct **35**(33) 4457-4476 (Nov 1998), 1A1364
Modeling the production and performance analysis of plasma-sprayed ceramic thermal barrier coatings, Arch Comput Methods Eng **5**(2) 59-166 (1998), 2A651
Characterization of mullite zirconia composite ceramics at high temperature (Chinese), Papers Ship Res Inst **35**(1) 13-23 (1998), 2A677
Fracture toughness of hydroxyapatite-mica composite, packed hydroxyapatite, alumina ceramics, silicon nitride and -carbide, Bio-Med Mat Eng **8**(1) 37-43 (1998), 2A876
Viscoelasticity and aging of dental composites, Bio-Med Mat Eng **8**(1) 45-53 (1998), 2A882
Reduction of residual stress generated in metal-ceramic joining, Mat Manuf Processes **13**(4) 491-504 (1998), 2A1052
Multi-fracture response of cross-ply ceramic composites, Int J Solids Struct **35**(36) 5051-5083 (Dec 1998), 3A576
Toughening mechanisms of nano-composite ceramics, Mech Mat **30**(2) 111-123 (Oct 1998), 3A577
Elevated-temperature "ultra" fast fracture strength of advanced ceramics: An approach to elevated-temperature "inert" strength, J Eng Gas Turbines Power **121**(1) 18-24 (Jan 1999), 5A528
Development of a combustor liner composed of ceramic matrix composite, J Eng Gas Turbines Power **121**(1) 12-17 (Jan 1999), 5A1386
New FE for global modeling of delaminations in laminated beams, Finite Elements Anal Des **31**(2) 165-177 (Dec 1998), 6A51
Intrinsic toughness and adhesion mechanisms of a glass-epoxy interface, J Mech Phys Solids **47**(2) 223-258 (Feb 1999), 7A541
Properties of strength and distribution for ceramics subjected to contact load (Japanese), J Soc Mat Sci Japan **47**(12) 1251-1257 (Dec 1998), 7A542
Characterization of fatigue mechanisms of thermal barrier coatings by a novel laser-based test, J Eng Gas Turbines Power **121**(2) 259-264 (Apr 1999), 8A738
Testing of a low cooled ceramic nozzle vane under transient conditions, J Eng Gas Turbines Power **121**(2) 254-258 (Apr 1999), 8A857
Fracture strength of fiber-bonded ceramic composite subjected to static and impact bending, JSME Int J Ser A **41**(4) 495-502 (Oct 1998), 10A275
Constitutive model for sintering of ceramic powder compacts with internal structure due to granules, JSME Int J Ser A **42**(1) 17-24 (Jan 1999), 10A658
Thermal shock parameters of ceramics evaluated by infrared radiation heating, JSME Int J Ser A **40**(4) 414-422 (Oct 1997), 10A1391

256V. Plastics, elastomers, rubbers

Influence of design on mixing efficiency in the kneading disc region of co-rotating twin screw extruders, J Reinforced Plastics Composites **17**(12) 1076-1086 (1998), 1A810
Flow of polymer melts in plane- and axisymmetric converging dies, J Reinforced Plastics Composites **17**(12) 1135-1144 (1998), 1A1165
Determination of critical length and interfilament friction in multi-filament chemical yarns, Fibres Textiles in E Europe **6**(1) 32-35 (Jan-Mar 1998), 2T678
Effects of structure and formation conditions on mechanical properties of polyethylene terephthalate (PET) fibers, Fibres Textiles in E Europe **6**(1) 44-51 (Jan-Mar 1998), 2A679
Effect of macro and micro voids on elastic properties of polymer composites, J Reinforced Plastics Composites **17**(15) 1391-1402 (1998), 3A578
Virtual prototyping in polymer composites, J Thermoplastic Composite Mat **11**(5) 394-416 (Sep 1998), 3A579
Coupled viscoelasticity-damage model with application to swirl-mat composites, Int J Damage Mech **7**(4) 351-380 (Oct 1998), 3A795
Abrasion behavior of natural rubber reinforced with aramid short fiber (Chinese), J Xi'an Jiaotong Univ **32**(10) 88-91 (1998), 4A607
Relationship between morphology and solvent interactions of a polyester composite material, Composites Part A Appl Sci and Manuf **29A**(12) 1481-1487 (1998), 4A615
Application of the network alteration theory for modeling the time-dependent constitutive behavior of rubbers - Part I: General theory, Mech Mat **30**(4) 253-263 (Dec 1998), 5A529
Application of the network alteration theory for modeling the time-dependent constitutive behavior of rubbers - Part II: Further evaluation of the general theory and experimental verification, Mech Mat **30**(4) 265-273 (Dec 1998), 5A530
Improvements in the properties of mechanically recycled thermoplastics, Polymers and Polymer Composites **6**(5) 261-267 (1998), 5A531
Polymer foams as core materials in sandwich laminates: Comparison with honeycomb, Polymers and Polymer Composites **6**(5) 295-304 (1998), 5A532
Modeling and simulation of the solids conveying and unfilled regions in polymer extrusion, J Reinforced Plastics Composites **18**(1) 15-26 (1999), 6A786
Failure of automobile seat belts caused by polymer degradation, Eng Failure Anal **6**(1) 13-25 (Feb 1999), 6A929
Variation of G_{1c} and δ_{1c} with crack growth rate in polyethylene, J Reinforced Plastics Composites **18**(1) 86-93 (1999), 6A941
Characterization of a knitted fabric reinforced elastomer composite, J Reinforced Plastics Composites **18**(2) 118-137 (1999), 7A543
Damaged hyperelastic medium: Mullins effect with irreversible strain, Int J Damage Mech **8**(1) 82-101 (Jan 1999), 7A751
Estimation of temperature in rubber-like materials using nonlinear FE analysis based on strain history, Finite Elements Anal Des **31**(4) 280-294 (Feb 1999), 8A29
Crystallinity of on-line consolidated thermoplastic composites, J Composite Mat **33**(4) 306-324 (1999), 8A714
Polymer Blends and Polymer Composites (Technomic, Lancaster PA, 1998) 9N31
Crystallization and thermal properties of thermoplastic elastomeric reactive blends of polyamide-6 and acrylate rubber, Polymers and Polymer Composites **6**(8) 505-511 (1998), 9A671
Effect of displacement rate on the mode I fracture behavior of rubber toughened PMMA, JSME Int J Ser A **42**(1) 49-56 (Jan 1999), 10A906
Mechanical and swelling behaviors of rubber: A comparison of some molecular models with experiment, Math Mech Solids **4**(2) 139-167 (Jun 1999), 11A544
Quantitative prediction of impact forces in elastomers, J Eng Mat Tech **121**(3) 294-304 (Jul 1999), 12A197
Interfacial interaction and peel adhesion between polyamide and acrylate rubber in thermoplastic elastomeric blends, J Adhesion Sci Tech **13**(6) 649-668 (1999), 12A1021

256Y. Computational techniques

Numerical simulation of the pulling of multi-layer, multi-material composite with an explicit code (French), European J Mech Eng **43**(2) 51-60 (1998), 1A25
Dynamic Monte-Carlo simulation for unidirectional composites under tensile impact, Composites Sci Tech **58**(3-4) 487-495 (Mar-Apr 1998), 1A251
Fast solution method for 3D many-particle problems of linear elasticity, Int J Numer Methods Eng **42**(7) 1215-1229 (Aug 1998), 1A546
Reliability of composites in a random stress state, Composites Sci Tech **58**(6) 871-881 (Jun 1998), 1A598
Application of genetic algorithms to optimal tailoring of composite materials, Composites Sci Tech **58**(3-4) 571-589 (Mar-Apr 1998), 1A651
Discrete Korn's type inequality in subspaces and iterative methods for thin elastic structures, Comput Methods Appl Mech Eng **160**(1-2) 23-37 (Jul 1998), 1A652

Investigation of the interactions between the numerical and the modeling errors in the Homogenized Dirichlet Projection Method, Comput Methods Appl Mech Eng **159**(1-2) 79-101 (Jul 1998), 1A653
Multidisciplinary parametric design optimization for enhancing the affordability of molded composites, J Thermoplastic Composite Mat **11**(4) 364-392 (Jul 1998), 1A654
Rayleigh-Ritz solution for local stresses in composite laminates, Composites Sci Tech **58**(3-4) 447-461 (Mar-Apr 1998), 1A655
Numerical evaluation of elastostatic fields in locally isotropic 2D composites, J Mech Phys Solids **46**(8) 1441-1462 (Aug 1998), 1A724
Progressive delamination using interface elements, J Composite Mat **32**(14) 1246-1272 (1998), 1A894
Modeling the production and performance analysis of plasma-sprayed ceramic thermal barrier coatings, Arch Comput Methods Eng **5**(2) 59-166 (1998), 2A651
Numerical solution of problems of edge effects in the composites weakly reinforced by rectangular fibers with cracks in the filler (Russian), Prikl Mekh (Appl Mech) **33**(5) 60-69 (1998), 2A659
Analysis and collapse of thick composite torispheres, Proc Inst Mech Eng E **212**(E2) 103-117 (1998), 2A680
Elastic response of porous matrix plain weave fabric composites - Part I: Modeling, J Composite Mat **32**(16) 1426-1471 (1998), 2A681
Elastic response of porous matrix plain weave fabric composites - Part II: Results, J Composite Mat **32**(16) 1472-1507 (1998), 2A682
Fracture load predictions for adhesive joints under mixed mode I-II-III loading, J Composite Tech Res **20**(3) 187-197 (Jul 1998), 2A875
Numerical Green's function for steady-state heat conduction in heterogeneous media, J Eng Mat Tech **120**(4) 284-286 (Oct 1998), 2A1298
Development of mixed FEM for composite discontinuous analysis (Japanese), Proc JSCE **598**(I-44) 149-159 (Jul 1998), 3A18
Simplified methods for prediction of moisture diffusion in polymer matrix composites with cyclic environmental conditions, Polymers and Polymer Composites **6**(4) 189-203 (1998), 3A551
Backward transfer-matrix method for elastic analysis of layered solids with imperfect bonding, J Elast **50**(2) 109-128 (1998), 3A567
Calculation of the stresses and strains in embedded fiber optic sensors, J Composite Mat **32**(18) 1647-1679 (1998), 3A580
Effect of the coating on the stresses and strains in an embedded fiber optic sensor, J Composite Mat **32**(18) 1680-1711 (1998), 3A581
Modeling of laminates using a layerwise element with enhanced strains, Int J Numer Methods Eng **43**(4) 755-779 (Oct 1998), 3A582
Next generation design and analysis procedures for bonded composite repairs, Comput Model Simul in Eng **3**(3) 153-160 (Aug 1998), 3T583
Numerical approach to double well problems, SIAM J Numer Anal **35**(5) 1833-1849 (Oct 1998), 3A584
Property-based optimal design of composite materials and their internal architectures, J Composite Mat **32**(19) 1714-1752 (1998), 3A585
Stress concentration due to bolthole-cutout interaction in laminated composites, Comput Model Simul in Eng **3**(3) 170-178 (Aug 1998), 3A586
Three-dimensional stress recovery procedure for composite materials, Comput Struct **69**(5) 567-575 (Dec 1998), 3A587
Skin-stiffener stresses in composite plates and shallow shells, J Thermoplastic Composite Mat **11**(5) 455-465 (Sep 1998), 3A629
Computer Methods in Composite Materials VI (Comput Mech, Billerica MA, 1998) 4N13
Partial hybrid FEs for composite laminates, Finite Elements Anal Des **30**(4) 365-382 (Oct 1998), 4A616
Review of homogenization and topology optimization - I: Homogenization theory for media with periodic structure, Comput Struct **69**(6) 707-717 (Dec 1998), 4A617
Review of homogenization and topology optimization - II: Analytical and numerical solution of homogenization equations, Comput Struct **69**(6) 719-738 (Dec 1998), 4A618
Review of homogenization and topology optimization - III: Topology optimization using optimality criteria, Comput Struct **69**(6) 739-756 (Dec 1998), 4A619
Stress distributions around holes in composite laminates subjected to biaxial loading, Appl Composite Mat **5**(6) 365-378 (Nov 1998), 4A620
Geometrical description to mechanical prediction: Application to woven fabric composites, Sci Eng Comp Mat **7**(4) 291-298 (1998), 5A533
Structural analysis of an injection molded short-fiber-reinforced disk, J Mat Processing Manuf Sci **6**(2) 123-145 (Oct 1997), 5A534
Post-failure analysis of composite cylindrical panels under compression, J Reinforced Plastics Composites **17**(18) 1665-1681 (1998), 5A559
Computational Methods for Solution of Inverse Problems in Mechanics (ASME, New York, 1998) 6N37
Green's function for an elastic layered medium represented by eigenfunctions for the discrete and continuous spectrums (Japanese), Proc JSCE **605**(I-45) 171-185 (Oct 1998), 6A604
Differential geometrical method in elastic composite with imperfect interfaces, Appl Math Mech **19**(9) 869-879 (Sep 1998), 6A630
Inelastic FE analysis of fiber-reinforced composite laminates with damage, Proc Inst Mech Eng C **212**(C8) 717-729 (1998), 6A631
Novel axisymmetric variational analysis of stress transfer into fibers through a partially debonded interface, Composites Sci Tech **58**(12) 1863-1877 (Dec 1998), 6A632
Stable time step estimation for multi-material Eulerian hydrocodes, Comput Methods Appl Mech Eng **167**(1-2) 191-205 (Dec 1998), 6A633
Fatigue damage evaluation of PMC by time series model, J Composite Mat **33**(1) 37-53 (1998), 6A853
Effects of non-uniform particle distributions on damage evolution in pre-cracked, particulate composite specimens, Polymers and Polymer Composites **6**(6) 387-397 (1998), 6A925
Failure analysis of polymer composite stiffened laminates using the FEM, J Reinforced Plastics Composites **18**(1) 2-14 (1999), 6A928
Stress rupture of unidirectional high performance thermoplastic composites in end-loaded bending at elevated temperatures - Part II: Analytical modeling, J Composite Mat **33**(1) 22-36 (1998), 6A939
Thermal model for cracked structures repaired with composite patches, AIAA J **36**(12) 2229-2235 (Dec 1998), 6A974
Computer Methods in Composite VI (Comput Mech, UK, 1998) 7N17
Optimal material design in composites: An iterative approach based on homogenized cells, Comput Methods Appl Mech Eng **169**(1-2) 31-42 (Jan 1999), 7A544
Implicit and multigrid procedures for steady-state computations with upwind algorithms, Comput Fluids **28**(2) 187-212 (Feb 1999), 7A983
Effective coefficient of thermal expansion in thermal bending of composites undergoing linear heat flow, J Composite Mat **33**(2) 177-186 (1999), 7A1420
Models for predicting thermomechanical properties of 3D orthogonal woven composites, J Reinforced Plastics Composites **18**(2) 151-185 (1999), 7A1422
Thermoviscoelastic analysis of composite structures using a triangular flat shell element, AIAA J **37**(2) 238-247 (Feb 1999), 8A42
Modeling of infiltration of molten metal in fibrous preform by centrifugal force, Acta Mat **47**(3) 841-852 (Feb 1999), 8A616
Optimal design of laminates for maximum buckling resistance and minimum weight, J Composite Tech Res **21**(1) 25-32 (Jan 1999), 8A668
Effects of interphase strength on the damage modes and mechanical behavior of metal-matrix composites, Composites Part A Appl Sci and Manuf **30A**(3) 257-266 (1999), 8A784
Study of the numerical fracture mechanics analysis of composite T-joints, J Reinforced Plastics Composites **18**(3) 215-223 (1999), 8A796
Thermal shock testing for ceramics (Japanese), J Soc Mat Sci Japan **48**(1) 1-9 (Jan 1999), 8T1386
Computation of interface stresses by FEs for sandwich materials, Composite Struct **44**(4) 289-295 (Apr 1999), 9A24
Variational approach to the stress-transfer problem through partially debonded interfaces in a three-phase composite, Composites Sci Tech **59**(4) 519-535 (Mar 1999), 9A579
Analytical solution for the plane strain inclusion problem of an elastic power-law hardening matrix containing an elastic cylindrical inclusion, Int J Pressure Vessels Piping **76**(5) 291-297 (Apr 1999), 9A620
Modeling cement microstructure: Pixels, particles, and property prediction, Mat Struct **32**(217) 187-195 (Apr 1999), 9A630
Plastic analysis of complex microstructure composites using the generalized method of cells, AIAA J **37**(4) 482-488 (Apr 1999), 9A655
Local effects in stiffened composite tubes under generalized plane deformation, J Composite Mat **33**(5) 420-442 (1999), 9A672
Numerical procedure for elasticity and failure behavior prediction of textile-reinforced composite materials, J Thermoplastic Composite Mat **12**(3) 201-213 (May 1999), 9A890
Thermal stresses and thermal expansion in a uniformly heated functionally graded cylinder, J Thermal Stresses **22**(2) 177-188 (Mar 1999), 9A1432
Stress singularities in composite wedge-shaped materials, Fatigue Fracture Eng Mat Struct **22**(1) 11-15 (1999), 10A567
Computational advances in modeling composites and heterogeneous materials, Comput Methods Appl Mech Eng **172**(1-4) 3-308 (Apr 1999), 10T659
Effect of diffusionally accommodated interfacial sliding on the stress and deformation in copper-polyimide high density interconnects, Mech Mat **31**(5) 317-329 (May 1999), 10A660
A simple non-linear global-local FE methodology for composite structures, Adv Composites Letters **8**(1) 7-12 (1999), 10A661
High-strength fabrics with polyester filament content, Fibres Textiles in E Europe **6**(3) 23-25 (Jul-Aug 1998), 11T545
Predicting effective elastic properties of spatially reinforced composites by a generalized self-consistent procedure, Composite Mech Des **3**(2) 60-70 (1997), 11A546
Representation of theory tasks periodic solutions on basis of non-smooth argument transformation, Appl Mech Eng **4**(S) 115-120 (1999), 11T547
Simplified analyses of a fiber-reinforced plastic joint for filament-wound pipes, J Pressure Vessel Tech **121**(3) 327-333 (Aug 1999), 11A548
Temperature-dependent beam for shape-memory alloys: Constitutive modeling, FE implementation and numerical simulations, Comput Methods Appl Mech Eng **174**(1-2) 171-190 (May 1999), 11A549
Theoretical analysis of composite shell intersections, J Strain Anal Eng Des **34**(2) 107-116 (Mar 1999), 11A550
Discontinuous Materials and Structures (Comput Mech, Billerica MA, 1999) 12N4
Hybrid Finite Element Method for Stress Analysis of Laminated Composites (Kluwer, MA, 1998) 12R12
Finite-element investigation of the compressive strength of non-crimp-fabric-based composites, Composites Sci Tech **59**(8) 1287-1297 (Jun 1999), 12A36
Finite element analysis of compressible viscoplasticity using a three-field formulation: Application to metal powder hot compaction, Comput Methods Appl Mech Eng **175**(1-2) 19-40 (Jun 1999), 12A644
Identification of structure of inter-thread channels in models of woven fabrics, Fibres Textiles in E Europe 7(2) 41-45 (Apr-Jun 1999), 12T645
Simple approach for the analysis of embedded ply drops in composite and sandwich laminates, Composites Sci Tech **59**(8) 1213-1226 (Jun 1999), 12A646
Finite element analysis of composite folded plates with elastically restrained edges, J Reinforced Plastics Composites **18**(7) 626-641 (1999), 12A659
Delamination onset prediction in mechanically fastened joints in composite laminates, J Composite Mat **33**(10) 906-927 (1999), 12A1014
Stress analysis and strength evaluation of single-lap band adhesives joints subjected to external bending moments, J Adhesion Sci Tech **13**(6) 729-749 (1999), 12A1024

256Z. Experimental techniques

Effect of strain gage size on measurement errors in textile composite materials, Composites Sci Tech **58**(3-4) 539-548 (Mar-Apr 1998), 1A656
Raman Micro-spectroscopy in Polymer Composites, Sci Eng Comp Mat 7(1-2) 1-204 (1998), 1T657
Study of Mode-I delamination cracks by high-magnification moire interferometry, Composites Sci Tech **58**(3-4) 515-525 (Mar-Apr 1998), 1A897
Non-destructive testing of aerospace composite materials using digital shearography, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 21-30 (1998), 1A925
Experimental verification of theoretical yarn break predictions, Fibres Textiles in E Europe **6**(1) 24-27 (Jan-Mar 1998), 2T683
Multiplexed optical fiber-based extrinsic Fabry-Perot sensor system for *in-situ* strain monitoring in composites, Smart Mat Struct 7(4) 550-556 (Aug 1998), 2A684
Study on testing techniques for concrete-like materials under compressive impact loading, Cement & Concrete Composites **20**(4) 293-299 (1998), 2A896
Experimental evaluation of repair efficiency of composite patching by ESPI, J Composite Mat **32**(17) 1595-1616 (1998), 3A588
Experimental study of the influence of plate end anchorage of carbon fiber composite plates used to strengthen reinforced concrete beams, Composite Struct **42**(2) 175-188 (Jun 1998), 3A618
Residual strain and Young's modulus determination in cross-ply composites using an embedded aramid fiber strain sensor, Composites Part A Appl Sci and Manuf **29A**(11) 1363-1369 (1998), 3A823
Detection of surface and subsurface flaws in homogeneous and composite solids by resonant ultrasound, J Nondestruct Eval **17**(2) 79-87 (Jun 1998), 3A864
New tensile rupture test for the mechanical characterization of an adhesively-bonded structural ceramic assembly, J Adhesion Sci Tech **12**(10) 1029-1043 (1998), 3A1008
Application of debond length measurements to examine the mechanics of fiber pushout, J Mech Phys Solids **46**(9) 1675-1697 (Sep 1998), 4A595
Compliance-derived strain determination in fiber (bundle) tests at high temperatures, Adv Composites Letters 7(3) 69-73 (1998), 4A621
Peel test for characterization of polymer composite-concrete interface, J Composite Mat **32**(21) 1894-1913 (1998), 4A622
Saint-Venant effects in the Iosipescu specimen, J Composite Mat **32**(22) 1986-2015 (1998), 4A623
Standard test methods for delamination resistance of composite materials: Current status, Appl Composite Mat **5**(6) 345-364 (Nov 1998), 4A624
X-ray measurement of axial and hoop residual stresses in microcomposite specimens, J Thermal Stresses **21**(7) 743-749 (Oct 1998), 4A625
Effect of through-thickness stitching on the fatigue life of composite single-lap joints, Appl Composite Mat **5**(6) 399-409 (Nov 1998), 4A772
Enhanced mode-II fracture toughness of an epoxy resin due to shear banding, Acta Mat **46**(16) 5647-5661 (Oct 1998), 4A819
Effect of reinforcing tabs on the mode I delamination toughness of stitched CFRPs, J Composite Mat **32**(22) 2016-2041 (1998), 4A851
Bearing failure in pin contact of composite laminates, AIAA J **36**(11) 2124-2129 (Nov 1998), 5A535
Current fractographic research and its application - IV: Microstructures and fracture - for ceramic materials (Japanese), J Soc Mat Sci Japan **47**(9) 978-983 (Sep 1998), 5T536
Image analysis technique for evaluating internal damage in graphite-fabric and polyimide composites, Composites Sci Tech **58**(10) 1607-1619 (Oct 1998), 5A720
Measurement of thermal expansion coefficients of composites using strain gages, Exp Mech **38**(4) 233-241 (Dec 1998), 5A750
Low resolution pulsed NMR and ultrasound study to monitor the cure of an epoxy resin adhesive, Int J Adhesion Adhesives **18**(5) 319-331 (Oct 1998), 5A758
Novel quantitative NDT method for composite structures, Opt Lasers Eng **30**(3-4) 299-304 (Sep-Oct 1998), 6A634
Whole-field assessment of the effects of boundary conditions on the strain field in off-axis tensile testing of unidirectional composites, Composites Sci Tech **58**(12) 1939-1947 (Dec 1998), 6A635
Investigation of mixed mode I-II interlaminar fracture toughness of laminated composites by using a CTS type specimen, Eng Fracture Mech **61**(3-4) 325-342 (Sep-Nov 1998), 6A934
Acoustic emission in composite laminates, J Nondestruct Eval **17**(3) 117-127 (Sep 1998), 6A991
Separation of measured fatigue crack stress fields in a metal matrix composite material, Acta Mat **47**(2) 585-593 (Jan 1999), 7A722
C-scan and L-scan generated images of the concrete-GFRP composite interface, NDT&E Int **32**(2) 61-69 (Mar 1999), 7A790
Single-sided ultrasonic technique to characterize thick FRP composites, J Nondestruct Eval **17**(4) 223-230 (Dec 1998), 7A793
Nondestructive evaluation of interlaminar bonding for *in situ* consolidation of polymer composites, J Composite Mat **33**(2) 124-157 (1999), 7A800
Experimentation and modeling of composite materials, Exp Mech **39**(1) 1-19 (Mar 1999), 8T617
Simplified compression bending test method for advanced composites, Composites Part A Appl Sci and Manuf **30A**(3) 249-256 (1999), 8A618
State and dynamic testing of a quasi-isotropic composite with embedded optical fibers, Composites Part A Appl Sci and Manuf **30A**(3) 317-324 (1999), 8A619
Toughness characterization of damageable ceramic matrix composites, Composites Part A Appl Sci and Manuf **30A**(3) 191-201 (1999), 8A799
Manual on Experimental Methods of Mechanical Testing of Composites, Second Edition (Fairmont Press, Lilburn GA, 1998) 9N29
Nonlinear FE analysis of Iosipescu specimens, Composites Sci Tech **59**(4) 561-573 (Mar 1999), 9A32
Fiber orientation in short-fiber-reinforced thermoplastics - I: Contrast enhancement for image analysis, Composites Sci Tech **59**(4) 543-545 (Mar 1999), 9A673
Fiber orientation in short-fiber-reinforced thermoplastics - II: Quantitative measurements by image analysis, Composites Sci Tech **59**(4) 547-560 (Mar 1999), 9A674
Measurement of strain concentration factor of composites plate using moire interferometry, Strain **35**(1) 11-14 (Feb 1999), 9A675
Nondestructive determination of the elastic anisotropy in aluminum-SiC and Al_2O_3 metal matrix composites, Res Nondestructive Eval **11**(1) 1-13 (1999), 9A676
Coupon development for fatigue testing of bonded assemblies of pultruded rods, Composites Part A Appl Sci and Manuf **30A**(5) 611-613 (1999), 9A845
Study of the fracture behavior of unidirectional fiber-reinforced composites using Coherent Gradient Sensing interferometry, Int J Fracture **90**(4) 355-382 (1998), 9A937
Phase ultrasonic testing of joints in multilayered composite materials, J Thermoplastic Composite Mat **12**(2) 154-162 (Mar 1999), 9A954

Application of the rapid frequency sweep technique for delamination detection in composite laminates, Adv Composites Letters **8**(1) 19-23 (1999), 10A207
Consolidation of powder impregnated-sheath surrounded thermoplastic composite bundles, Adv Composites Letters **8**(1) 33-38 (1999), 10A813
Modal acoustic emission of damage accumulation in a woven SiC-SiC composite, Composites Sci Tech **59**(5) 687-697 (Apr 1999), 10A961
NDT data fusion at pixel level, NDT&E Int **32**(5) 283-292 (Jul 1999), 10A969
Simulated stiffness determination from simple compression tests on a thick laminate, Composites Part A Appl Sci and Manuf **30A**(7) 849-858 (1999), 11A42
Applications of thermoelastic stress analysis to composite materials, Strain **35**(2) 41-48 (May 1999), 11A539
Air-penetrability of woven multi-layer composite textiles, Fibres Textiles in E Europe **7**(1) 34-37 (Jan-Mar 1999), 11T551
Experimental determination of stress concentrations in orthotropic composites, J Strain Anal Eng Des **34**(2) 69-81 (Mar 1999), 11A552
Mechanical properties of mass-colored polypropylene fibers, Fibres Textiles in E Europe **7**(1) 29-32 (Jan-Mar 1999), 11T553
Methods of determination of shear properties of textile composites, Composites Part A Appl Sci and Manuf **30A**(7) 879-885 (1999), 11A554
Novel procedure for complete in-plane composite characterization using a single T-shaped specimen, Exp Mech **39**(2) 142-149 (Jun 1999), 11A555
Yarn fineness, diameter, and twist, Fibres Textiles in E Europe **6**(4) 20-23 (Sep-Dec 1998), 11A556
Experimental method to measure the mode-III interlaminar fracture toughness of composite laminates, Composites Sci Tech **59**(7) 1015-1021 (May-Jun 1999), 11A828
Modification of the mixed-mode bending test apparatus, Composites Part A Appl Sci and Manuf **30A**(7) 871-877 (1999), 11A831
On-line observation of interlaminar damage by ultrasonic inspection, Composites Sci Tech **59**(6) 957-961 (May 1999), 11A850
Structural thermo-mechanical model of textile composite materials at high temperatures, Composites Sci Tech **59**(7) 1041-1053 (May-Jun 1999), 11A1455
Deformation anisotropy of jacquard fabrics, Fibres Textiles in E Europe **7**(2) 39-40 (Apr-Jun 1999), 12T647
Effect of a stabilizer on changes in the rheological properties of cellulose carbamate spinning solutions during their storage, Fibres Textiles in E Europe **7**(2) 46-48 (Apr-Jun 1999), 12A648
Evaluation of the usefulness of modified casein as a sizing agent for warp threads, Fibres Textiles in E Europe **7**(2) 53-55 (Apr-Jun 1999), 12T649
Mechanical characterization of the interface between a shape memory alloy fiber and a resin epoxy matrix, Eng Trans **46**(3-4) 291-314 (1998), 12A650

258. CABLES, ROPES, BEAMS, ETC

258A. General theory

Error on the constitutive relation in the nonlinear formulation of elastic beams: The plane case, Comput Methods Appl Mech Eng **160**(3-4) 299-314 (Jul 1998), 1A658
Finite element-analysis of a moving beam using Lagrangian multiplier method, Int J Solids Struct **35**(28-29) 3675-3694 (Oct 1998), 1A671
Probabilistic analysis of the Stussi-Kollbrunner paradox, Heron **42**(3) 169-180 (1997), 2A624
Paradoxical bending behavior of shearable nonlinearly elastic rods, J Elast **50**(1) 27-48 (1998), 2A685
Generalized Poynting effects in predeformed prismatic bars, J Elast **50**(2) 181-196 (1998), 3A589
Non-classical effects in nonlinear analysis of pretwisted anisotropic strips, Int J Non-Linear Mech **34**(2) 259-277 (Mar 1999), 4A626
Fundamental theory of curved structures from a non-tensorial point of view, Struct Eng and Mech **7**(2) 159-180 (Feb 1999), 6A645
Mastering Mechanics 1 using MATLAB 5 (Prentice Hall, Upper Saddle River, NJ, 1999) 7R14
Shear correction factors and an energy-consistent beam theory, Int J Solids Struct **36**(10) 1523-1540 (Apr 1999), 7A545
New exact solutions for randomly loaded beams with stochastic flexibility, Int J Solids Struct **36**(16) 2325-2340 (Jun 1999), 7A558

258B. Nonlinear and finite deformation problems

Nonlinear Analysis of Structures (CRC Press, Boca Raton FL, 1998) 1R11
Development of a robust element for second-order "nonlinear integrated design and analysis", J Construct Steel Res **47**(1-2) 169-190 (Jul 1998), 1A18
Simple and accurate method for determining large deflections in compliant mechanisms subjected to end forces and moments, J Mech Des **120**(3) 392-400 (Sep 1998), 1A659
Hybrid method for estimating modal damping in sag cable with oil damper, Adv in Struct Eng **1**(4) 221-236 (Jul 1998), 2A172
Paradoxical bending behavior of shearable nonlinearly elastic rods, J Elast **50**(1) 27-48 (1998), 2A685
Geometrically nonlinear model for laminated composite strips with extension-twist coupling in the presence of delamination, J Appl Mech **65**(3) 685-693 (Sep 1998), 2A686
Nonlinear analysis of fiber-reinforced plastic poles, Struct Eng and Mech **6**(7) 785-800 (Oct 1998), 3A27
Damage coupled elastoplastic FE analysis of a Timoshenko layered beam, Comput Struct **69**(3) 411-420 (Nov 1998), 3A590
Degenerate formulation for large displacement analysis of 3D solid beams, Proc JSCE **598**(I-44) 11-19 (Jul 1998), 3A591
Yield line analysis of RHS connections with axial loads, J Construct Steel Res **48**(1) 1-25 (Oct 1998), 3A592
Multilayered mixed beam element in gradient plasticity for the analysis of localized failure modes, Mech Cohesive-Frictional Mat **3**(4) 305-322 (Oct 1998), 4A40
Kinematic model of a multi-beam structure undergoing large elastic displacements and rotations - Part 2: Kinematic model of an open chain, Mech Machine Theory **34**(2) 223-242 (Feb 1999), 4A97
Kinematic model of a multi-beam structure undergoing large elastic displacements and rotations - Part I: Model of an isolated beam, Mech Machine Theory **34**(2) 205-222 (Feb 1999), 4A100
Inelastic failure of high strength steel I-shaped beams, J Construct Steel Res **49**(1) 1-24 (Jan 1999), 4A627
Mode localization in multispan cable systems, Eng Struct **21**(1) 45-54 (Jan 1999), 4A628
Finite element analysis model for the behavior of cold-formed steel members, Thin-Walled Struct **31**(4) 305-324 (Aug 1998), 5A21
Formulation of geometrically nonlinear 3D-Rebar-elements using the enhanced assumed strain method, Eng Struct **21**(3) 209-218 (Mar 1999), 5A42
Dynamics of an elastic beam in large overall motions (Chinese), Chinese J Comput Mech **15**(4) 407-413 (Nov 1998), 5T537
Recent developments and future trends in thin-walled structures, Thin-Walled Struct **32**(1-3) 3-230 (Sep-Nov 1998), 5A538
Regularity for shearable nonlinearly elastic rods in obstacle problems, Arch Rational Mech Anal **145**(1) 23-49 (1998), 5A539
Finite deformation theory for thin-walled beams with orthogonal warping functions (Japanese), Proc JSCE **605**(I-45) 253-264 (Oct 1998), 6A636
Experimental study of fracture of lightly reinforced concrete beams, Mat Struct **31**(214) 683-691 (Dec 1998), 6A1035
Deflections and buckling of a bent elastica in contact with a flat surface, Int J Solids Struct **36**(8) 1209-1229 (Mar 1999), 7A546
Modeling bristle bending in brush seals, Math Eng Industry **7**(3) 349-359 (1999), 7A547
Nonlinear analysis of composite beams under positive bending, Comput Struct **70**(1) 77-89 (Jan 1999), 7A548
Nonlinear equations of a hyperelastic bar and their solution, Strojnicky Casopis **49**(6) 373-383 (1998), 7A549
Large displacement elastoplastic analysis of space trusses as a mathematical programming problem, Int J Space Struct **13**(3) 127-136 (1998), 8A563
Double curvature bending of variable-arc-length elasticas, J Appl Mech **66**(1) 87-94 (Mar 1999), 8A620
Effective moment of inertia for rectangular elastoplastic beams, Struct Eng and Mech **7**(1) 95-110 (Jan 1999), 8A621
Synthesis of nonlinear constitutive functions, applications to the electromagnetic control of snapping, J Appl Mech **66**(1) 280-283 (Mar 1999), 8T622
Mixed variational formulation in geometrically nonlinear elasticity and a generalized nth-order beam theory, Int J Non-Linear Mech **34**(4) 685-691 (Jul 1999), 9A577
Asymptotic treatment of the trapeze effect in FE cross-sectional analysis of composite beams, Int J Non-Linear Mech **34**(4) 709-721 (Jul 1999), 9A677
Discretization of spatially continuous systems with quadratic and cubic nonlinearities, JSME Int J Ser C **41**(3) 510-531 (Sep 1998), 9A678
Nonlinear analysis of concrete frames using a direct stiffness line element approach, Adv in Struct Eng **2**(3) 207-218 (May 1999), 9A679
Spatial hysteretic model and elastoplastic stiffness of steel columns, J Construct Steel Res **50**(3) 283-303 (Jun 1999), 9A680
Nonlinear inplane deformation and buckling of rings and high arches, Int J Non-Linear Mech **34**(4) 723-737 (Jul 1999), 9A687
Special Issue - Tension structures, Eng Struct **21**(8) 658-804 (Aug 1999), 9A1000
Dynamic curvature in catenary risers at the touch down point region: an experimental study and the analytical boundary-layer solution, Int J Offshore Polar Eng **8**(4) 303-310 (Dec 1998), 10A168
Complex 3D elastoplastic bending of a rod with a square cross-section, J Appl Math Mech **62**(6) 967-970 (1999), 10A662
Geometric nonlinear modeling of submarine pipeline crossings, Int J Offshore Polar Eng **8**(4) 292-302 (Dec 1998), 10A663
Large deflection of superconducting cable, Int J Non-Linear Mech **34**(5) 869-880 (Sep 1999), 10A664
Local and global bifurcation analyses of a spatial cable elastica, J Appl Mech **66**(2) 352-360 (Jun 1999), 10A665
Geometrically nonlinear elastic analysis of space trusses, Struct Eng and Mech **7**(4) 345-360 (Apr 1999), 11A557
Nonlinear analysis method with sliding cable elements for the cable structures (Chinese), Chinese J Comput Mech **16**(2) 143-149 (May 1999), 11T558
Simo-Vu Quoc rods using Clifford algebra, Int J Numer Methods Eng **45**(4) 377-398 (Jun 1999), 11A559
Effect of cable stiffness on a cable-stayed bridge, Struct Eng and Mech **8**(1) 27-38 (Jul 1999), 11A937
Nonlinear strain measures, shape functions, and beam elements for dynamics of flexible beams, Multibody Syst Dyn **3**(2) 189-205 (May 1999), 12A138

258C. Strings, wires, chains

Analysis and control of space tether at retrieval phase (Japanese), Proc JSCE **598**(I-44) 239-246 (Jul 1998), 3A593
Concise FE model for simple straight wire rope strand, Int J Mech Sci **41**(2) 143-161 (Feb 1999), 4A21
Dynamical theory of twist in yarn plying, Math Eng Industry **7**(1) 41-56 (1998), 4A629
Analytical models for mooring chain-soil interaction, J Offshore Mech Arctic Eng **121**(1) 1-8 (Feb 1999), 5A540
Homogeneous solutions and St-Venant problems for a helical spring, J Appl Math Mech **62**(4) 641-648 (1998), 6A637
Analysis of termination effects in wire strand using the FE method, J Strain Anal Eng Des **34**(1) 31-38 (Jan 1999), 11A560
Axial stiffness and torsional effects in a 76 mm wire rope: Experimental data and theoretical predictions, J Strain Anal Eng Des **34**(1) 39-51 (Jan 1999), 11A561

258E. Ropes, cables, and belts

Theory of Wire Rope, Second Edition (Springer-Verlag, New York, 1997) 1N21
Determination of wire recovery length in steel cables and its practical applications, Comput Struct **68**(5) 445-459 (Sep 1998), 1A660
Elastoplastic equilibrium of isotropic band with a circular hole bent by the constant intersecting force, Prikl Mekh (Appl Mech) **34**(1) 92-97 (1998), 1A661
Model for analysis of wire rope with complex cross section (Spanish), J Brazilian Soc Mech Sci **20**(2) 278-297 (Jun 1998), 1A662
Prediction of coupled axial-torsional stiffness coefficients of locked-coil ropes, Comput Struct **69**(3) 305-319 (Nov 1998), 3A594
Practical cable tension adjustment based upon the satisfaction concept of bridge designers (Japanese), Proc JSCE **598**(I-44) 381-390 (Jul 1998), 3A910
Two-dimensional analysis of submarine pipelines during pipelaying (Chinese), J Dalian Univ Tech **39**(1) 91-94 (Jan 1999), 7A550
Torsional failure of a wire rope mooring line during installation in deep water, Eng Failure Anal **6**(2) 67-82 (Apr 1999), 9A681
Local and global bifurcation analyses of a spatial cable elastica, J Appl Mech **66**(2) 352-360 (Jun 1999), 10A665
Comparison between continuous and discrete modeling of cables with bending stiffness, Appl Math Model **23**(7) 527-541 (Jul 1999), 11A562
Derivation of a curved rod model by Kirchhoff assumptions, Z Angew Math Mech **79**(7) 455-463 (1999), 12A651
Design of spiral strands against axial fatigue, Int J Offshore Polar Eng **9**(2) 149-157 (Jun 1999), 12A652

258F. Beams (bending and torsion)

Location of the critical diagonal crack in ferrocement beams, J Ferrocement **28**(2) 135-146 (Apr 1998), 1A984
Torsion of an infinite composite elastic cylindrical shell, Acta Mech **130**(1-2) 135-141 (1998), 2A687
Stresses and deformations in overlapped diesel engine crankshafts - Part 1: Experimental results, Proc Inst Mech Eng D **212**(D3) 187-204 (1998), 2A1034
Moments due to thermal stratification for a uniform beam with spring end conditions, J Pressure Vessel Tech **120**(4) 462-464 (Nov 1998), 2A1317
Interesting behavior patterns of poroelastic beams and columns, Int J Solids Struct **35**(34-35) 4931-4943 (Dec 1998), 3A595
Stresses and deformations in overlapped diesel engine crankshafts - Part 2: Evaluation of results, Proc Inst Mech Eng D **212**(D4) 255-270 (1998), 3A596
Torsion problem of rectangular cross section bar with inner crack, Comput Methods Appl Mech Eng **162**(1-4) 107-111 (Aug 1998), 3A597
Buckling behaviors of cracked roof (Chinese), J Shanghai Jiaotong Univ **32**(8) 102-106 (Aug 1998), 4A630
ED-Beams and ED-Frames (CIMNE, Barcelona, 1998) 5N20
Consistent equilibirum in a cross-section of an elastic-plastic beam, Int J Solids Struct **36**(2) 311-337 (Jan 1999), 5A541
Optimal fiber configurations for maximum torsional rigidity, Arch Rational Mech Anal **144**(1) 79-106 (1998), 5T542
Shear resistance of beams with shallow-angle bent-up bars, Proc Inst Civil Eng Struct Build **128**(4) 385-393 (Nov 1998), 5A543
Design of non-flexural members for shear, Cement & Concrete Composites **20**(6) 465-475 (1998), 5A784
Effect of openings on the behavior and strength of R-C beams in shear, Cement & Concrete Composites **20**(6) 477-486 (1998), 5A785
Shear design of reinforced concrete beams, slabs and walls, Cement & Concrete Composites **20**(6) 455-464 (1998), 5A790
Unified approach to shear analysis and design, Cement & Concrete Composites **20**(6) 419-435 (1998), 5A794
Analysis of deep beams and shear walls by finite strip method with C^0 continuous displacement functions, Thin-Walled Struct **32**(4) 289-303 (Dec 1998), 6A17
Higher order analysis of laminated composite strips with extension-twist coupling, Int J Solids Struct **36**(7) 1081-1098 (Mar 1999), 6A621
Applications of wavelet Galerkin FEM to bending of beam and plate structures, Appl Math Mech **19**(8) 745-755 (Aug 1998), 6A638
Spatially complex localization in twisted elastic rods constrained to lie in the plane, J Mech Phys Solids **47**(1) 59-79 (Jan 1999), 6A639
Mastering Mechanics 1 using MATLAB 5 (Prentice Hall, Upper Saddle River, NJ, 1999) 7R14
Shear correction factors and an energy-consistent beam theory, Int J Solids Struct **36**(10) 1523-1540 (Apr 1999), 7A545
Optimization approach for torsion analysis of prismatic bars, Commun Numer Methods Eng **15**(1) 57-63 (Jan 1999), 7A551
Study on the structural mechanism of Reinforced concrete (RC) composite beam considering pre-loading effect (Japanese), Proc JSCE **609**(VI41) 61-72 (Dec 1998), 7A552
Extrusion, channel, and profile bending: A review, J Mat Processing Tech **87**(1-3) 1-27 (Mar 1999), 7A662
Mixed variational formulation in geometrically nonlinear elasticity and a generalized nth-order beam theory, Int J Non-Linear Mech **34**(4) 685-691 (Jul 1999), 9A577
Fabrication, analysis, and experimentation of a practically constructed laminated composite I-beam under pure bending, J Thermoplastic Composite Mat **12**(3) 177-187 (May 1999), 9A667
Asymptotic treatment of the trapeze effect in FE cross-sectional analysis of composite beams, Int J Non-Linear Mech **34**(4) 709-721 (Jul 1999), 9A677
Probabilistic approaches for optimal beam design based on fracture mechanics, Meccanica **34**(1) 29-38 (Feb 1999), 9A969
Flexure of a Saint Venant cylinder, J Elast **52**(2) 99-110 (1998), 10A666
Improved hybrid-stress element approach to torsion of shafts, Comput Struct **71**(5) 535-563 (Jun 1999), 10A667
Torsion of functionally graded isotropic linearly elastic bars, J Elast **52**(2) 181-199 (1998), 10A668
Static behavior of preconditioned glass-fiber reinforced epoxy sandwich I-beams, Composites Sci Tech **59**(6) 963-973 (May 1999), 11A531
Analysis of coefficient identification problems associated to the inverse Euler-Bernoulli beam theory, IMA J Appl Math **62**(2) 101-116 (Apr 1999), 11A563

Transverse vibration of a rotating twisted Timoshenko beams under axial loading using differential transform, Int J Mech Sci **41**(11) 1339-1356 (Nov 1999), 12A157

Local effects due to warping in straight homogeneous or composite beams (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 653-658 (Jul 1999), 12A653

Recovery of stresses in a beam from those in a cone, J Elast **53**(1) 65-75 (1998), 12A654

Shear stresses in prismatic beams with arbitrary cross-sections, Int J Numer Methods Eng **45**(7) 865-889 (Jul 1999), 12A655

258G. Beams on foundations

Semi-analytical FE analysis of a strip footing on an elastic reinforced soil, Appl Math Model **22**(4-5) 331-349 (Apr-May 1998), 1A27

Determination of restraint forces for steel struts, Proc Inst Civil Eng Struct Build **128**(3) 282-289 (Aug 1998), 2A688

Failure of a flexible pipe with a concrete liner, Eng Failure Anal **5**(3) 247-259 (Sep 1998), 5A812

Study on vibration of infinite continuous beam under axial loads, J Vib Eng **11**(4) 443-449 (Dec 1998), 6A150

Exact FE for a beam on a two-parameter elastic foundation: A revisit, Struct Eng and Mech **7**(3) 259-276 (Mar 1999), 9A26

Impact response of high speed rail bridges and riding comfort of rail cars, Eng Struct **21**(9) 836-844 (Sep 1999), 10A669

Interface beam element for the analysis of soil-structure interactions and pipelines, Int J Offshore Polar Eng **9**(1) 22-29 (Mar 1999), 10A670 ·

Model scale experiments to determine bending moments of beams resting on sand, Geotechnique **49**(2) 267-272 (Apr 1999), 10A671

258H. Thin walled beams

Determination of shear stresses, warping functions and section properties of thin-walled beams using FEs, Comput Struct **68**(4) 393-410 (Aug 1998), 1A663

Reference Stress for tubes containing scars, J Mech Behavior Mat **9**(1) 53-67 (1998), 1A664

Similarities between solid and thin-walled composite beams by analytic approach, J Aircraft **35**(4) 604-615 (Jul-Aug 1998), 1A665

Variational derivation of the dynamic equilibrium equations of nonprismatic thin-walled beams defined on an arbitrary coordinate system, Mech Struct Machines **26**(2) 219-237 (1998), 1T666

Strength of materials formulation for thin walled composite beams with torsion, J Composite Mat **32**(17) 1560-1594 (1998), 3A598

Dynamics of shear deformable thin walled open beams subjected to initial stresses (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 293-316 (1998), 4A631

Structural behavior of homogeneous and hybrid stub columns under dynamic loading conditions, Thin-Walled Struct **31**(4) 289-303 (Aug 1998), 5A797

Idealization of ships with large hatch openings by a thin-walled rod of open section on many elastic supports, Thin-Walled Struct **32**(4) 305-325 (Dec 1998), 6A1065

Computer program for determination of geometrical properties of thin-walled beams with open profile, Adv Eng Software **30**(2) 109-119 (Feb 1999), 7A553

Effect of an ultralight metal filler on the bending collapse behavior of thin-walled prismatic columns, Int J Mech Sci **41**(8) 995-1019 (Aug 1999), 7A554

Distortional theory of thin-walled beams, Thin-Walled Struct **33**(4) 269-303 (Apr 1999), 9A682

Distortional warping functions and shear distributions in thin-walled beams, Thin-Walled Struct **33**(4) 245-268 (Apr 1999), 9A683

Experimental study on the effect of curvature-rate at preloading stage on subsequent creep or relaxation of thin-walled tubes under pure bending, JSME Int J Ser A **41**(4) 525-531 (Oct 1998), 10A672

Strength of cold-formed steel structural beams: A comparative study, J Struct Eng (India) **25**(4) 273-276 (Jan 1999), 11T564

258I. Anisotropic beams

Transient dynamics of laminated beams: An evaluation with a higher-order refined theory, Composite Struct **41**(1) 1-11 (Jan 1998), 1A643

Similarities between solid and thin-walled composite beams by analytic approach, J Aircraft **35**(4) 604-615 (Jul-Aug 1998), 1A665

Minimum material cost design of five-layer sandwich beams, Struct Optim **15**(3-4) 215-220 (Jun 1998), 1A951

Efficient FE modeling of composite beams and plates using higher-order theories and an accurate composite beam element, Composite Struct **41**(2) 159-165 (Feb 1998), 2A31

Influence of curing stresses on extension-twist coupling in laminated composite strips, AIAA J **36**(9) 1714-1720 (Sep 1998), 2A689

Investigation of composite box beam dynamics using a higher-order theory, Composite Struct **41**(3-4) 273-284 (Mar-Apr 1998), 3A599

Laminated beams subjected to transverse load, Strain **34**(3) 91-94 (Aug 1998), 3A600

Torsion of laminated rectangular rods, Composite Struct **42**(1) 23-31 (May 1998), 3A601

Finite element free vibration analysis of smart laminated composite beams and plates, J Intelligent Mat Syst Struct **9**(1) 20-28 (Jan 1998), 4A632

Experimental study of the behavior of connections for pultruded GFRP I-beams and rectangular tubes, Composite Struct **42**(3) 281-290 (Jul 1998), 5A525

Impact performance of pultruded beams for highway safety applications, Composite Struct **42**(3) 231-237 (Jul 1998), 5A526

Finite elements method for the dynamic analysis of tapered composite poles, Composite Struct **43**(1) 25-34 (Sep 1998), 6A620

Asymptotic theory for static behavior of elastic anisotropic I-beams, Int J Solids Struct **36**(7) 1017-1043 (Mar 1999), 6A640

Composite beam behavior in braced frames, J Construct Steel Res **49**(3) 271-289 (Mar 1999), 7A555

Deflection control of laminated composite beams with piezoceramic layers: Closed form solutions, Composite Struct **43**(3) 217-231 (Nov 1998), 7A821

Composite beam analysis with arbitrary cross section, Composite Struct **44**(2-3) 189-194 (Feb-Mar 1999), 9A684

Dynamic analysis for laminated composite beams, Composite Struct **44**(2-3) 81-87 (Feb-Mar 1999), 9A685

Examination of a higher order theory for sandwich beams, Composite Struct **44**(2-3) 169-177 (Feb-Mar 1999), 9A686

Response of composite beam under low-velocity impact of multiple masses, Composite Struct **44**(2-3) 205-220 (Feb-Mar 1999), 9A943

Elasticity interior solution for orthotropic strips and the accuracy of beam theories, J Appl Mech **66**(2) 368-373 (Jun 1999), 10A673

Jordan canonical form solution for thermally induced deformations of cross-ply laminated composite beams, J Thermal Stresses **22**(3) 331-346 (Apr 1999), 10A1397

Laminated composite open profile sections: First order shear deformation theory, Composite Struct **45**(2) 105-114 (Jun 1999), 11A543

Moments in composite beams and slabs: A comparative study, J Struct Eng (India) **25**(4) 267-272 (Jan 1999), 11T565

Stress distribution in sandwich beams under tension, Composite Struct **45**(3) 195-204 (Jul 1999), 11A566

Experimental and theoretical investigation on the shear of steel fiber reinforced concrete beams, Eng Struct **21**(10) 937-944 (Oct 1999), 11A896

Asymptotic analysis of the nonlinear behavior of long anisotropic tubes, Int J Non-Linear Mech **34**(6) 1003-1018 (Nov 1999), 12A656

258J. Nonhomogeneous beams

Rational mode the degree of interaction in composite beams with flexible shear connectors, Mech Struct Machines **26**(2) 175-194 (1998), 1A144

Frequency dependence of the anisotropy of the velocity of ultrasound in a water based magnetic liquid, Russian Ultrasonics **28**(1) 6-7 (1998), 1T667

Geometrically nonlinear model for laminated composite strips with extension-twist coupling in the presence of delamination, J Appl Mech **65**(3) 685-693 (Sep 1998), 2A686

Dynamic characteristics of sandwich beam with embedded Electro-Rheological fluid, J Intelligent Mat Syst Struct **9**(1) 60-68 (Jan 1998), 4A633

Plate reinforced concrete beams: Experimental work, Eng Struct **21**(3) 232-254 (Mar 1999), 5A789

Use of ANSYS to calculate the behavior of sandwich structures, Composites Sci Tech **58**(12) 1899-1905 (Dec 1998), 6A641

Bending of unbounded multilayered beams and plates, Mech Res Commun **26**(1) 69-74 (Jan-Feb 1999), 7T556

Deflections of partially composite beams with linear connector density, J Construct Steel Res **49**(3) 241-254 (Mar 1999), 7A557

New exact solutions for randomly loaded beams with stochastic flexibility, Int J Solids Struct **36**(16) 2325-2340 (Jun 1999), 7A558

Local effects due to warping in straight homogeneous or composite beams (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 653-658 (Jul 1999), 12A653

258K. Nonuniform beams

Variational derivation of the dynamic equilibrium equations of nonprismatic thin-walled beams defined on an arbitrary coordinate system, Mech Struct Machines **26**(2) 219-237 (1998), 1T666

Analysis of general elastically end restrained nonuniform beams using differential transform, Appl Math Model **22**(4-5) 219-234 (Apr-May 1998), 1A668

Investigation of composite box beam dynamics using a higher-order theory, Composite Struct **41**(3-4) 273-284 (Mar-Apr 1998), 3A599

Experiments and prediction of a cold air flow which causes snow clouds in Ishikari Bay (Japanese), Proc JSCE **607**(II-45) 1-17 (Nov 1998), 6A642

Beams of non uniform cross section with moving constant point mass, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 55-62 (1999), 11A567

258L. Curved beams and rings

Simplified analysis of residual stresses in in-situ cured hoop-wound rings, J Composite Mat **32**(13) 1325-1343 (1998), 1A669

Determination of restraint forces for steel struts, Proc Inst Civil Eng Struct Build **128**(3) 282-289 (Aug 1998), 2A688

Exact solutions for extensible circular curved Timoshenko beams with nonhomogeneous elastic boundary conditions, Acta Mech **130**(1-2) 67-79 (1998), 2A690

Influence of temperature depolarization on thermoelectromechanical behavior of the ring plate from viscoelastic material under harmonic loading (Russian), Prikl Mekh (Appl Mech) **34**(6) 85-91 (1998), 4A1406

Study of mathematical model for unrestrained piston-ring curve (Chinese), J Dalian Univ Tech **39**(1) 82-85 (Jan 1999), 7A559

Nonlinear inplane deformation and buckling of rings and high arches, Int J Non-Linear Mech **34**(4) 723-737 (Jul 1999), 9A687

Numerical and experimental investigations of contact in thin and thick rings, Int J Mech Sci **41**(9) 1051-1066 (Sep 1999), 9A688

Governing equations of initially twisted elastic space rods made of laminated composite materials, Int J Eng Sci **37**(8) 1007-1035 (Jun 1999), 11A568

Stresses in a confocal elliptic ring subject to uniform pressure, J Strain Anal Eng Des **34**(3) 217-221 (May 1999), 11A569

258Y. Computational techniques

Geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections, Comput Methods Appl Mech Eng **160**(3-4) 383-400 (Jul 1998), 1A49

Rational mode the degree of interaction in composite beams with flexible shear connectors, Mech Struct Machines **26**(2) 175-194 (1998), 1A144

Exact thick arch FE, Comput Struct **68**(4) 369-379 (Aug 1998), 1A670

Finite element-analysis of a moving beam using Lagrangian multiplier method, Int J Solids Struct **35**(28-29) 3675-3694 (Oct 1998), 1A671

Generation of shape functions for straight beam elements, Comput Struct **68**(6) 555-560 (Sep 1998), 1A672

Finite elements for the static analysis of beams with varying cross section, Comput Struct **69**(2) 191-196 (Oct 1998), 2A691

Refined RC beam element including bond-slip relationship for the analysis of continuous beams, Comput Struct **69**(1) 53-62 (Oct 1998), 2A692

Global numerical analysis of elasto-plastic frames, Comput Assisted Mech Eng Sci **5**(1) 93-100 (1998), 2T976

Explanation and elimination of shear locking and membrane locking with field consistence approach, Comput Methods Appl Mech Eng **162**(1-4) 249-269 (Aug 1998), 3A602

Finite deformation theory for beam, plate and shell - Part III: The 3D beam theory and the FE formulation, Comput Methods Appl Mech Eng **162**(1-4) 287-300 (Aug 1998), 3A603

Investigation of stresses at the fixed end of deep cantilever beams, Comput Struct **69**(3) 329-338 (Nov 1998), 3A604

New higher-order hybrid-mixed curved beam element, Int J Numer Methods Eng **43**(5) 925-940 (Nov 1998), 4A41

Non-classical effects in nonlinear analysis of pretwisted anisotropic strips, Int J Non-Linear Mech **34**(2) 259-277 (Mar 1999), 4A626

Finite element formulation for sliding beams - Part I, Int J Numer Methods Eng **43**(7) 1309-1333 (Dec 1998), 4A634

Finite element theory for curved and twisted beams based on exact solutions for 3D solids - Part 1: Beam concept and geometrically exact nonlinear formulation, Comput Methods Appl Mech Eng **165**(1-4) 43-92 (Nov 1998), 4A635

Finite element theory for curved and twisted beams based on exact solutions for 3D solids - Part 2: Anisotropic and advanced beam models, Comput Methods Appl Mech Eng **165**(1-4) 93-127 (Nov 1998), 4A636

Shear-flexible element with warping for thin-walled open beams, Int J Numer Methods Eng **43**(7) 1173-1191 (Dec 1998), 4A637

Sliding beams - Part II: Time integration, Int J Numer Methods Eng **43**(7) 1335-1363 (Dec 1998), 4A638

Finite rotation quadrilateral element for multi-layer beams, Int J Numer Methods Eng **44**(3) 405-431 (Jan 1999), 6A643

Two-noded locking-free shear flexible curved beam element, Int J Numer Methods Eng **44**(2) 265-280 (Jan 1999), 6A644

Application of Trefftz complete functional system to stress analysis in helical spring with an arbitrary wire cross-section, Strojnicky Casopis **49**(6) 426-437 (1998), 7A560

Study of warping torsion of thin-walled beams with open cross-section using macro-elements, Int J Numer Methods Eng **44**(6) 853-868 (Feb 1999), 7A561

Mixed FEM for the quasi-static and dynamic analysis of viscoelastic Timoshenko beams, Int J Numer Methods Eng **44**(12) 1909-1932 (Apr 1999), 9A136

Nonlinear analysis of concrete frames using a direct stiffness line element approach, Adv in Struct Eng **2**(3) 207-218 (May 1999), 9A679

Geometrically exact 3D beam theory: Implementation of a strain-invariant FE for statics and dynamics, Comput Methods Appl Mech Eng **171**(1-2) 141-171 (Mar 1999), 9A689

New algorithm for bending problems of continuous and inhomogeneous beam by the BEM, Adv Eng Software **30**(5) 339-346 (May 1999), 9A690

Optimization of catenary risers, J Offshore Mech Arctic Eng **121**(2) 90-94 (May 1999), 9A965

Bending stress fields in composite laminate beams by a boundary integral formulation, Comput Struct **71**(3) 267-276 (May 1999), 10A674

C^1 FE including transverse shear and torsion warping for rectangular sandwich beams, Int J Numer Methods Eng **45**(1) 47-75 (May 1999), 10A675

Thin-walled closed box beam element for statica and dynamic analysis, Int J Numer Methods Eng **45**(4) 473-490 (Jun 1999), 11A570

258Z. Experimental techniques

Theoretical design of calibration beams for strain gauge factor measuring apparatus, Strain **34**(3) 99-107 (Aug 1998), 3A605

Experimental study of the behavior of connections for pultruded GFRP I-beams and rectangular tubes, Composite Struct **42**(3) 281-290 (Jul 1998), 5A525

260. PLATES, SHELLS, MEMBRANES, ETC

260A. General theory

Interlaminar stress analysis with a new multiparticle modelization of multilayered materials (M4), Composites Sci Tech **58**(3-4) 337-343 (Mar-Apr 1998), 1A673

Strain localization in stress-resultant theory of shells, Mech Res Commun **25**(4) 455-465 (Jul-Aug 1998), 1T677

Boundary integral equations for the shells of arbitrary geometry (Russian), Prikl Mekh (Appl Mech) **34**(5) 57-67 (1998), 2A98

Variational consistency of the higher-order-shear-deformation plate equations derived from the 3D differential equations of motion, Composite Struct **41**(3-4) 285-287 (Mar-Apr 1998), 3A606

Vibration of functionally graded cylindrical shells, Int J Mech Sci **41**(3) 309-324 (Mar 1999), 4A168

Existence theorem for nonlinearly elastic "flexural" shells, J Elast **50**(3) 261-277 (1998), 4A639

Static analysis of shells with developable middle surfaces, Appl Mech Rev **51**(12) 731-746 (Dec 1998), 5A544

Fundamental theory of curved structures from a non-tensorial point of view, Struct Eng and Mech **7**(2) 159-180 (Feb 1999), 6A645

Matching technique of postprocess method using displacement fields of higher order plate theories, Composite Struct **43**(1) 71-78 (Sep 1998), 6A646

Mathematical foundation of the (1,1,2)-plate model, Int J Solids Struct **36**(14) 2143-2168 (May 1999), 7A562

Plate theory and complementary displacement method, Int J Solids Struct **36**(9) 1329-1368 (Mar 1999), 7A563

Geometry and strength of general helicoidal shells, Appl Mech Rev **52**(5) 161-175 (May 1999), 8A623

Spherical impression of thin elastic films on elastic-plastic substrates, Int J Solids Struct **36**(18) 2773-2788 (Jun 1999), 8A624
Theory of thin films of martensitic materials with applications to microactuators, J Mech Phys Solids **47**(3) 531-576 (Mar 1999), 8A625
Exact controllability of a Koiter shell by a boundary action, J Elast **52**(3) 267-287 (1998), 12A657

260B. Nonlinear and finite deformation theory

Nonlinear Analysis of Structures (CRC Press, Boca Raton FL, 1998) 1R11
Formulation and numerics for the statics and dynamics of shells at finite deformations (German), Bauingenieur **73**(6) 283-291 (Jun 1998), 1A674
Large viscoplastic deformations of shells: Theory and FE formulation, Comput Mech **21**(6) 512-525 (Jun 1998), 1A675
Nonlinear-progressive damage processes of structures (German), Bauingenieur **73**(6) 267-273 (Jun 1998), 1A676
Strain localization in stress-resultant theory of shells, Mech Res Commun **25**(4) 455-465 (Jul-Aug 1998), 1T677
Load bearing capacity of longitudinal stiffened shells under axial loading: Are our standards too conservative? (German), Bauingenieur **73**(6) 292-298 (Jun 1998), 1A695
Nonlinear Theory of Shallow Shells (Springer-Verlag, New York, 1998) 2N15
Prediction and measurement of nonlinear strain response of composite plates, Composite Struct **41**(2) 137-149 (Feb 1998), 2A674
Analysis of large deflections for pressure loaded plates with rigid inclusions, J Strain Anal Eng Des **33**(3) 217-222 (May 1998), 2A693
Nonlinear geometric and material analysis of laterally loaded plates by FEM, J Eng Appl Sci **45**(3) 327-343 (Jun 1998), 2A694
Nonlinear theory for composite laminated shells with interfacial damage, J Appl Mech **65**(3) 711-718 (Sep 1998), 2A695
Nonlinear viscoelastic analysis of composite plates and shells, Composite Struct **41**(3-4) 265-272 (Mar-Apr 1998), 3A517
Homogenization of the elastoplastic behavior of perforated plates, Comput Struct **69**(4) 537-545 (Nov 1998), 3A607
Large deformational analyses for plate and shell structures by the tangent stiffness method (Japanese), Proc JSCE **598**(I-44) 347-358 (Jul 1998), 3A608
Assessment of models for analysis of singly-curved sandwich panels, Composite Struct **41**(3-4) 289-301 (Mar-Apr 1998), 3A624
Nonlinear analysis of bonded composite patch repair of cracked aluminum panels, Composite Struct **41**(3-4) 303-313 (Mar-Apr 1998), 3A820
Adaptive multi-point quadrature for elastic-plastic shell elements, Finite Elements Anal Des **30**(4) 253-278 (Oct 1998), 4A18
Compatibility of large deformations in nonlinear shell theory, Eur J Mech A **17**(5) 855-864 (1998), 4A640
Steady motions of translating, twisted webs, Int J Non-Linear Mech **34**(2) 247-257 (Mar 1999), 4A641
Finite element static and dynamic analyses of folded plates, Eng Struct **21**(3) 277-287 (Mar 1999), 5A24
Exact solutions for elastic membrane disks, Math Mech Solids **3**(4) 393-410 (Dec 1998), 5A545
Geometrically nonlinear analysis of a simply-supported hip-truncated combined parabolical cylinder roof, Eng Struct **21**(3) 267-276 (Mar 1999), 5A546
Metal shell structures, Thin-Walled Struct **31**(1-3) 3-270 (May-Jul 1998), 5A547
Nonlinear vibration of thin plates with initial stress by spline finite strip method, Thin-Walled Struct **32**(4) 275-287 (Dec 1998), 6A173
Transient responses of geometrically nonlinear laminated composite shell structures, Finite Elements Anal Des **31**(2) 117-134 (Dec 1998), 6A606
Elastoplastic stress analysis in stainless steel fiber reinforced aluminum metal matrix laminated plates loaded transversely, Composite Struct **43**(2) 147-154 (Oct 1998), 6A618
Analysis of nonlinear elastic state of orthotropic shells of revolution when applying the yielding theory (Russian), Prikl Mekh (Appl Mech) **34**(8) 91-93 (1998), 6A647
Application of the modified method of multiple scales to the bending problems for circular thin plate at very large deflection and the asymptotics of solutions, Appl Math Mech **19**(10) 937-950 (Oct 1998), 6A648
Computer-assisted generation of yield-line patterns for uniformly loaded isotropic slabs using an optimization strategy, Eng Struct **21**(6) 488-496 (Jun 1999), 6A649
New technique for solving non-axially symmetrical large deflection of elastic and thin circular plates, Appl Math Mech **19**(9) 907-916 (Sep 1998), 6A650
Nonsymmetrical large deformation of a shallow thin conical shell, Appl Math Mech **19**(10) 917-928 (Oct 1998), 6A651
Numerical investigation of tripping, Marine Struct **11**(4-5) 159-183 (May-Jun 1998), 6A676
Effects of welding distortions and residual stresses on the ultimate strength of long rectangular plates under uniaxial compression, Marine Struct **11**(6) 251-269 (Jul 1998), 7A564
Nonlinear bending and instability of imperfect cylindrical tubes, Int J Pressure Vessels Piping **76**(1) 43-47 (Jan 1999), 7A590
Cyclic behavior of partly plastic pinned circular tubes - I: Analytical model, Thin-Walled Struct **33**(1) 49-67 (Jan 1999), 8A626
Cyclic behavior of partly plastic pinned circular tubes - II: Testing and verification of the model, Thin-Walled Struct **33**(1) 69-82 (Jan 1999), 8A627
Effect of thickness on large-deflection behavior of shells, AIAA J **37**(3) 403-405 (Mar 1999), 8T628
Generalized multilength scale nonlinear composite plate theory with delamination, Int J Solids Struct **36**(20) 3015-3050 (Jul 1999), 8A629
Numerical analysis of cracked inelastic shells with large displacements or mixed mode loading, Int J Solids Struct **36**(15) 2259-2283 (May 1999), 8A630
Proceedings of the 3rd International Conference on Nonlinear Mechanics (Shanghai Univ Press, PRC, 1998) 9N14
Viscoplastic analysis of thin-walled tubes under cyclic bending, Struct Eng and Mech **7**(5) 457-471 (May 1999), 9A609
Effect of thickness on the large elastic deformation behavior of laminated shells, Composite Struct **44**(2-3) 117-128 (Feb-Mar 1999), 9A666
Energy approach to building a mathematical model of thermoelastic shells, Machine Dyn Prob **22** 96-103 (1998), 9A691
Plastic limit analysis of a clamped circular plate with unified yield criterion, Struct Eng and Mech **7**(5) 513-525 (May 1999), 9A692
Spline function method of lines for analyzing nonlinear problem of shells (Chinese), J China Univ Mining Tech **28**(2) 152-154 (1999), 9A693
Large thermal deflection analysis of composite plates using finite strip method, Adv in Struct Eng **2**(2) 137-146 (Feb 1999), 9A995
Dynamic plastic behavior of circular plate using unified yield criterion, Int J Solids Struct **36**(22) 3257-3275 (Aug 1999), 10A561
Finite element concepts for finite elastoplatic strains and isotropic stress response in shells: Theoretical and computational analysis, Comput Methods Appl Mech Eng **171**(3-4) 243-279 (Apr 1999), 10A676
General form of jump conditions for thin irregular shells, Arch Mech **50**(3) 483-495 (1998), 10A677
Nonlinear response of laminated plates and shells to thermomechanical loading: Implications of violation of interlaminar shear traction continuity requirement, Int J Solids Struct **36**(27) 4111-4147 (Sep 1999), 10A678
Unified plastic limit analysis of circular plates under arbitrary load, J Appl Mech **66**(2) 568-570 (Jun 1999), 10T679
Asymptotic analysis of anisotropic nonlinear elastic plates, Bull Polish Acad Sci Tech Sci **47**(2) 115-126 (1999), 11A571
Large deflection of composite laminated plates under transverse and in-plane loads and resting on elastic foundations, Composite Struct **45**(2) 115-123 (Jun 1999), 11A572
Plastic design of orthotropic circular plates, J Struct Eng (India) **25**(4) 227-235 (Jan 1999), 11A573
Dimensional analysis and asymptotic expansions of the equilibrium equations in nonlinear elasticity - Part I: The membrane model, Arch Mech **50**(6) 953-973 (1998), 12A84
Dimensional analysis and asymptotic expansions of the equilibrium equations in nonlinear elasticity - Part II: The 2D von Karman model, Arch Mech **50**(6) 975-1001 (1998), 12A85
Mechanical characterization of the interface between a shape memory alloy fiber and a resin epoxy matrix, Eng Trans **46**(3-4) 291-314 (1998), 12A650
Plastic buckling of complete toroidal shells of elliptical cross-section subjected to internal pressure, Thin-Walled Struct **34**(2) 135-146 (Jun 1999), 12A676

260C. Plates (flexure and torsion)

Plastic Limit Analysis of Plates, Shells, and Disks, Second Edition (Elsevier Sci BV, Netherlands, 1997) 1R12
Variational principles on static-dynamic analysis of viscoelastic thin plates with applications, Int J Solids Struct **35**(33) 4491-4505 (Nov 1998), 1A549
Adaptive modeling of plates in bending and shear, Comput Struct **68**(6) 653-663 (Sep 1998), 1A678
Analysis of a plate containing an elliptic inclusion with eigencurvatures, Arch Appl Mech **68**(6) 422-432 (Jul 1998), 1A679
Approach of forming by acting of GT in machine manufacturing works (Chinese), J Dalian Univ Tech **38**(4) 400-404 (Jul 1998), 1A680
Effect of support conditions on the performance of CFRP plates subjected to biaxial flexure, Composites Sci Tech **58**(3-4) 613-621 (Mar-Apr 1998), 1A681
International Conference on thin-walled structures: Plates and shells, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **30**(1-4) 3-250 (Jan-Apr 1998), 1T682
Mixed problem about the bending of a thin elastic plate of a lunate form with the freely supported edge, Prikl Mekh (Appl Mech) **34**(1) 85-91 (1998), 1A683
Modeling via differential quadrature method: 3D solutions for rectangular plates, Comput Methods Appl Mech Eng **159**(3-4) 369-381 (Jul 1998), 1A684
Nonlinear bending of corrugated annular plate with large boundary corrugation, Appl Mech Eng **2**(3) 353-367 (1997), 1A685
Overall properties of thin hyperelastic plate at finite strain with edge effects using asymptotic method, Int J Eng Sci **36**(9) 973-1000 (Jul 1998), 1A686
Thermoelectroelastic Green's function for a piezoelectric plate containing an elliptic hole, Mech Mat **30**(1) 21-29 (Sep 1998), 1A687
Quantitative analysis of local contraction of ship plate bending by line heating (Chinese), J Dalian Univ Tech **38**(4) 405-409 (Jul 1998), 1A1361
Perspective on FEs for shell analysis, Finite Elements Anal Des **30**(3) 175-186 (Aug 1998), 2A35
Calculation of skewed and trapezoidal plates by spline-functions (Russian), Prikl Mekh (Appl Mech) **33**(5) 77-81 (1998), 2T696
Solution of the problem on the bend of free supported anisotropic elliptic plate (Russian), Prikl Mekh (Appl Mech) **34**(5) 98-103 (1998), 2A697
Static analysis of Reissner-Mindlin plates by differential quadrature element method, J Appl Mech **65**(3) 705-710 (Sep 1998), 2A698
Residual stress and a crack due to displacement constraint for thin plate bending problem (Japanese), Proc JSCE **598**(I-44) 391-400 (Jul 1998), 3A503
Asymptotically exact joining conditions at the junction of plates with very different characteristics, J Appl Math Mech **62**(2) 253-261 (1998), 3A609
Deflection relationships between classical and third-order plate theories, Acta Mech **130**(3-4) 199-208 (1998), 3A610
Prewavelet approximations for a system of boundary integral equations for plates with free edges on polygons, Math Methods Appl Sci **21**(13) 1233-1267 (Sep 1998), 3A611
Systematic study on the shear transfer capacities of embossed steel plates for composite construction (Japanese), Proc JSCE **598**(I-44) 183-202 (Jul 1998), 3A612
Treatment of mixed and nonuniform boundary conditions in GDQ vibration analysis of rectangular plates, Eng Struct **21**(2) 125-134 (Feb 1999), 4A162
"Warping" theory of plate deformation, Eur J Mech A **17**(5) 843-853 (1998), 4A642
Analysis of an infinite shape memory alloy plate with a circular hole subjected to biaxial tension, Int J Solids Struct **36**(1) 167-178 (Jan 1999), 4A643
Fast convergent series solutions for thermal bending of thin rectangular plates, J Thermal Stresses **21**(7) 763-775 (Oct 1998), 4A644
Nonlinear mathematical model of viscoelastic thin plates with its applications, Comput Methods Appl Mech Eng **165**(1-4) 307-319 (Nov 1998), 4A645
Simply supported ell- and cross-shaped plates under uniform lateral loads, Int J Mech Sci **41**(1) 59-69 (Jan 1999), 4A646
Investigation of mode III fracture toughness using an anti-clastic plate bending method, Eng Fracture Mech **60**(5-6) 597-603 (Jul 1998), 4A853
Influence of temperature depolarization on thermoelectromechanical behavior of the ring plate from viscoelastic material under harmonic loading (Russian), Prikl Mekh (Appl Mech) **34**(6) 85-91 (1998), 4A1406
Magnetoelastic bending and stability of soft ferromagnetic rectangular plates, Appl Math Mech **19**(7) 669-676 (Jul 1998), 5A571
Strength of aluminium alloy plate girders subjected to patch loading, Proc Inst Civil Eng Struct Build **128**(4) 376-384 (Nov 1998), 5A765
Dynamic stress concentrations in Ambartsumian's plate with a cutout, Acta Mech Solida Sinica **11**(4) 341-350 (1998), 6A214
Applications of wavelet Galerkin FEM to bending of beam and plate structures, Appl Math Mech **19**(8) 745-755 (Aug 1998), 6A638
Analysis of plates with curved boundaries using isoparametric strip distributed transfer functions, Int J Numer Methods Eng **44**(1) 131-146 (Jan 1999), 6A652
General fundamental solution of the sixth-order Reissner and Mindlin plate bending models revisited, Comput Methods Appl Mech Eng **166**(3-4) 363-378 (Nov 1998), 6A653
One variant of FE approach to solution of plane problems of linear of composites elasticity (Russian), Prikl Mekh (Appl Mech) **34**(10) 73-83 (1998), 6T654
Plates with holes under lateral load pressure, Eng Failure Anal **5**(4) 299-315 (Dec 1998), 6A655
Variational treatment of exterior boundary-value problems for thin elastic plates, IMA J Appl Math **61**(2) 141-153 (Oct 1998), 6A656
Elastic buckling of unilaterally constrained rectangular plates in pure shear, Eng Struct **21**(5) 443-453 (May 1999), 6A693
Mathematical foundation of the (1,1,2)-plate model, Int J Solids Struct **36**(14) 2143-2168 (May 1999), 7A562
Plate theory and complementary displacement method, Int J Solids Struct **36**(9) 1329-1368 (Mar 1999), 7A563
Boundary value problems for degenerate von Karman equations, Quart Appl Math **57**(1) 1-17 (Mar 1999), 7A565
Numerical analysis of moving orthotropic thin plates, Comput Struct **70**(4) 467-486 (Feb 1999), 7A566
Simplified analysis of elastic plates with edge beams, Comput Struct **70**(2) 129-139 (Jan 1999), 7A567
Trefftz method applied to a moderately thick plate, Int J Numer Methods Eng **44**(7) 1011-1024 (Mar 1999), 7A568
Elastoplastic buckling of rectangular plates in biaxial compression-tension, Int J Mech Sci **41**(7) 751-765 (Jul 1999), 7A607
Parametric FE study of cracked plates and shells, Thin-Walled Struct **33**(3) 211-229 (Mar 1999), 8A22
Exact connection between deflections of the classical and shear deformation laminated plate theories, J Appl Mech **66**(1) 260-262 (Mar 1999), 8T631
Evolutionary method for optimal design of plates with discrete variable thicknesses subject to constant weight, Struct Optim **17**(1) 55-64 (Feb 1999), 8A832
Deformation and failure of blast-loaded square plates, Int J Impact Eng **22**(4) 449-467 (Apr 1999), 9A242
Zeroth-order shear deformation theory for plates, AIAA J **37**(4) 524-526 (Apr 1999), 9T694
Three-dimensional solution for shape control of a simply supported rectangular hybrid plate, J Thermal Stresses **22**(2) 159-176 (Mar 1999), 9A740
Thin-Walled Cellular Structures: Methods for Their Analysis (Balkema, Rotterdam, Netherlands, 1999) 10R15
Rational FEM for elastic bending of Reissner plates, Appl Math Mech **20**(2) 193-199 (Feb 1999), 10A46
Mixed variational formula for the thermal bending of laminated plates, J Thermal Stresses **22**(3) 347-365 (Apr 1999), 10A518
Axisymmetric bending of functionally graded circular and annular plates, Eur J Mech A **18**(2) 185-199 (Mar-Apr 1999), 10A680
Efficient large deflection analysis of rectangular plates with general transverse form of displacement, Comput Struct **71**(3) 333-352 (May 1999), 10A681
R-functions method for the problems of elasto-plastic bending of arbitrary-shape plates (Russian), Prikl Mekh (Appl Mech) **35**(1) 80-84 (1999), 10A682
Relationships between Kirchhoff and Mindlin bending solutions for Levy plates, J Appl Mech **66**(2) 541-545 (Jun 1999), 10T683
Stochastic normal deflections of orthotropic and composite rectangular plates, Chaos Solitons Fractals **10**(7) 1213-1219 (Jul 1999), 10A684
Strip element method for bending analysis of orthotropic plates, JSME Int J Ser A **40**(4) 398-406 (Oct 1997), 10A703
Model of thermomechanical process during welding of unbent plates with account for their relative displacements (Russian), Prikl Mekh (Appl Mech) **34**(12) 70-76 (1998), 10A1388
Bending of microstretch elastic plates, Int J Eng Sci **37**(10) 1309-1318 (Aug 1999), 11A574
Thermoelastic bending of orthotropic plates, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 135-145 (1999), 11A575
Applications of wavelet Galerkin FEM to bending of plate structure, Acta Mech Solida Sinica **12**(2) 136-143 (Jun 1999), 12A31
Variational principle of perturbed motion on viscoelastic thin plates with applications, Acta Mech Solida Sinica **12**(2) 121-128 (Jun 1999), 12A595
Differential quadrature element method for static analysis of Reissner-Mindlin polar plates, Int J Solids Struct **36**(33) 5101-5123 (Nov 1999), 12A658
Finite element analysis of composite folded plates with elastically restrained edges, J Reinforced Plastics Composites **18**(7) 626-641 (1999), 12A659

260D. Shells (membrane theory)

Experimental investigation of symmetrical and asymmetrical supercritical equilibirum configurations of a spherical shell under external pressure (Russian), Prikl Mekh (Appl Mech) **33**(7) 31-35 (1997), 2T716
Australian developments in the analysis of composite structures with material and geometric nonlinearities, Composite Struct **41**(3-4) 197-214 (Mar-Apr 1998), 3A575
Nonlinearly elastic shell models - A formal asymptotic approach I: The membrane model, Arch Rational Mech Anal **142**(4) 331-353 (1998), 3A613
Deformation and perforation of spherical shells by normal impact of blunt-ended projectiles, Mech Struct Machines **26**(3) 239-255 (1998), 3T852
Generalized membrane problem for linearly elastic shells with hyperbolic or parabolic middle surface, J Elast **51**(2) 145-165 (1998), 6A657
Connection of critical values of pressure for the all-round compressed convex shells of revolution with integral geometrical parameters (Russian), Prikl Mekh (Appl Mech) **34**(7) 49-56 (1998), 6T660
Two-dimensional elastica analysis of equilibrium shapes of single-anchor inflatable dams, Int J Solids Struct **36**(9) 1383-1398 (Mar 1999), 7A857
Design-oriented analysis of aircraft fuselage structures using equivalent plate methodology, J Aircraft **36**(1) 21-28 (Jan-Feb 1999), 7A880
Generation of surfaces via equilibrium of forces, Comput Struct **70**(6) 599-613 (Mar 1999), 8A632
Material point method for simulation of thin membranes, Int J Numer Methods Eng **44**(10) 1429-1456 (Apr 1999), 8A633
Coupled thermoelasticity of shells of revolution: Effect of normal stress and coupling, AIAA J **37**(4) 496-504 (Apr 1999), 9A1421
Finite element analysis of dynamic response of wrinkling membranes, Comput Methods Appl Mech Eng **173**(1-2) 227-240 (Apr 1999), 10A685
Note on end effects for prestressed constrained elastic cylinders, Int J Eng Sci **37**(11) 1481-1486 (Sep 1999), 12A660

260E. Shells (bending theory)

Plastic Limit Analysis of Plates, Shells, and Disks, Second Edition (Elsevier Sci BV, Netherlands, 1997) 1R12
Deformation and perforation of cylindrical shells struck normally by blunt projectiles, Int J Pressure Vessels Piping **75**(3) 213-219 (Mar 1998), 1A248
Nonlinear-progressive damage processes of structures (German), Bauingenieur **73**(6) 267-273 (Jun 1998), 1A676
International Conference on thin-walled structures: Plates and shells, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **30**(1-4) 3-250 (Jan-Apr 1998), 1T682
Large strain deformations of elastic shells: Constitutive modeling and FE analysis, Comput Methods Appl Mech Eng **161**(1-2) 1-18 (Aug 1998), 1A688
Stresses and stability for the cone-cylinder shells with toroidal transition, Int J Pressure Vessels Piping **75**(1) 49-56 (Jan 1998), 1A718
Bearing stone bell and the cupola of the Dresden church of our lady (German), Bauingenieur **73**(6) 259-266 (Jun 1998), 1A1012
Nonlinear Theory of Shallow Shells (Springer-Verlag, New York, 1998) 2N15
Perspective on FEs for shell analysis, Finite Elements Anal Des **30**(3) 175-186 (Aug 1998), 2A35
Treatment of shell normals in FE analysis, Finite Elements Anal Des **30**(3) 235-242 (Aug 1998), 2A66
Contact interaction of shells of revolution in unknown 2D regions (Russian), Prikl Mekh (Appl Mech) **33**(7) 43-51 (1997), 2A602
Viscoplastic collapse of thin-walled tubes under cyclic bending, J Eng Mat Tech **120**(4) 287-290 (Oct 1998), 2A632
Analysis and collapse of thick composite torispheres, Proc Inst Mech Eng E **212**(E2) 103-117 (1998), 2A680
Hybrid stress, hybrid strain and enhanced strain FE formulations for a geometrically exact shell theory with drilling dof, Int J Numer Methods Eng **43**(1) 175-192 (Sep 1998), 2A699
Two-dimensional models of linearly elastic shells: Error estimates between their solutions, Math Mech Solids **3**(3) 303-318 (Sep 1998), 2A700
Nonlinearly elastic shell models - A formal asymptotic approach II: The flexural model, Arch Rational Mech Anal **142**(4) 355-374 (1998), 3A614
Progressive fracture of fiber composite thin shell structures under internal pressure and axial loads, Int J Damage Mech **7**(4) 332-350 (Oct 1998), 3A822
Deformation and perforation of spherical shells by normal impact of blunt-ended projectiles, Mech Struct Machines **26**(3) 239-255 (1998), 3T852
Definition of stress-deformed state in nonthin transversally-isotropic spherical shells with curvilinear openings (Russian), Prikl Mekh (Appl Mech) **34**(6) 54-63 (1998), 4A647
Prestressing of shell roofs, Eng Struct **21**(1) 16-33 (Jan 1999), 4A648
Curvature effect on stress concentrations around circular hole in opened shallow cylindrical shell under external pressure, Int J Pressure Vessels Piping **75**(10) 749-763 (Aug 1998), 5A429
Testing and simulation of industrial composite structures for optimizing customer satisfaction, Sci Eng Comp Mat **7**(4) 279-286 (1998), 5A511
Metal shell structures, Thin-Walled Struct **31**(1-3) 3-270 (May-Jul 1998), 5A547
Flat end to cylindrical shell connection: Limit load and creep design, Int J Pressure Vessels Piping **75**(10) 715-726 (Aug 1998), 5A548
Stresses at the junctions of axisymmetric shells under axially varying load, Int J Pressure Vessels Piping **75**(10) 727-733 (Aug 1998), 5A549
Ultimate strength of a double-tee tubular joint subjected to combined chord compression and brace out-of-plane bending, J Strain Anal Eng Des **33**(5) 385-394 (Sep 1998), 5A550
Theory on cracked pipe, Int J Pressure Vessels Piping **75**(12) 865-869 (Oct 1998), 5A703
Laminated shells with actuation strains: General theory and applications, Arch Appl Mech **68**(9) 637-649 (Nov 1998), 5A773
Axisymmetric actuation of composite cylindrical thin shells with piezoelectric rings, Smart Mat Struct **7**(6) 843-850 (Dec 1998), 6A611
Approaches to solution of problems of statics for shells with nonhomogeneous structure (Russian), Prikl Mekh (Appl Mech) **34**(10) 42-49 (1998), 6A658
Boundary conditions in the 2D theory of shells: The mathematical aspect of the problem, J Appl Math Mech **62**(4) 617-629 (1998), 6A659
Connection of critical values of pressure for the all-round compressed convex shells of revolution with integral geometrical parameters (Russian), Prikl Mekh (Appl Mech) **34**(7) 49-56 (1998), 6T660
Dynamical interaction between local and overall curving in circular cylindrical shells: A 1D approach, Meccanica **33**(6) 565-576 (Dec 1998), 6A661
Effect of the elliptic degree of Ω-shaped bellows toroid on its stresses, Int J Pressure Vessels Piping **75**(13) 951-954 (Nov 1998), 6A662
Interaction of bending and stretching actions in shallow translational shells with various Gaussian curvature types, Eng Struct **21**(6) 538-553 (Jun 1999), 6A663
Numerical investigations of stress-strained state at the elliptical opening in cylindrical shells (Russian), Prikl Mekh (Appl Mech) **34**(9) 33-38 (1998), 6A664
Space of inextensional displacements for a partially clamped linearly elastic shell with an elliptic middle surface, J Elast **51**(2) 127-144 (1998), 6A665
Study of the stress-strained state of shallow shells and plates on the basis of the second approximation shift theory (Russian), Prikl Mekh (Appl Mech) **34**(8) 103-110 (1998), 6A666
Theory of very shallow shells based on the asymmetric theory of elasticity, J Appl Math Mech **62**(4) 635-640 (1998), 6A667
Well-posedness of the statics problem of the nonlinear theory of shallow elastic shells, J Appl Math Mech **62**(4) 631-634 (1998), 6A668
Selected papers presented at the Seventh International Conference on Computing in Civil and Building Engineering, Struct Eng and Mech **6**(8) 841-969 (Dec 1998), 6T1048
Effect of soil-structure interaction on the reliability of hyperbolic cooling towers, Struct Eng and Mech **7**(2) 217-224 (Feb 1999), 6A1489
Numerical solutions of mixed FEs for thin axisymmetric cylindrical shell with free edge boundary conditions (Chinese), Chinese J Comput Mech **16**(1) 63-72 (Feb 1999), 7T17
Response of curved laminated panels subjected to transverse impact loads, Int J Solids Struct **36**(9) 1311-1327 (Mar 1999), 7A162
Static-geometric duality and stress concentration in twisted and sheared shallow spherical shells, Comput Mech **22**(6) 437-442 (Jan 1999), 7T569
Stress concentration factors at circumferential welds in tubulars, Marine Struct **11**(6) 207-230 (Jul 1998), 7A733
Design-oriented analysis of aircraft fuselage structures using equivalent plate methodology, J Aircraft **36**(1) 21-28 (Jan-Feb 1999), 7A880
Parametric FE study of cracked plates and shells, Thin-Walled Struct **33**(3) 211-229 (Mar 1999), 8A22
Cyclic behavior of partly plastic pinned circular tubes - I: Analytical model, Thin-Walled Struct **33**(1) 49-67 (Jan 1999), 8A626
Cyclic behavior of partly plastic pinned circular tubes - II: Testing and verification of the model, Thin-Walled Struct **33**(1) 69-82 (Jan 1999), 8A627
Spectral fatigue damage calculation in the side shells of ships, with due account taken of the effect of alternating wet and dry areas, Marine Struct **11**(7-8) 319-343 (Aug-Sep 1998), 8A748
Structural design of closely packed horseshoe-shaped sewer linings during installation, Thin-Walled Struct **33**(1) 19-48 (Jan 1999), 8A873
Mechanics of cylindrical shells with non-circular cross-section: A survey, Appl Mech Rev **52**(8) 237-274 (Aug 1999), 9A168
Elastic response of functionally graded cylindrical shells to low-velocity impact, Int J Impact Eng **22**(4) 397-417 (Apr 1999), 9A695
Influence of wall-thickness variation on nonlinear behavior of U-shaped bellows - Calculations by iteration method of integral equation and gradient method, Commun Numer Methods Eng **15**(3) 203-218 (Mar 1999), 9A696
Experiment on elastically compressed frusta, Thin-Walled Struct **33**(4) 231-244 (Apr 1999), 9A713
Fuzzy optimization design of axisymmetrically loaded thin shells of revolution, Struct Eng and Mech **7**(3) 277-288 (Mar 1999), 9A962
Coupled thermoelasticity of shells of revolution: Effect of normal stress and coupling, AIAA J **37**(4) 496-504 (Apr 1999), 9A1421
Analysis of nonlinear interaction of the bent forms of the round cylindrical shells under their periodic excitation (Russian), Prikl Mekh (Appl Mech) **34**(12) 62-69 (1998), 10A686
Analysis of the problems of statics for the smooth and ribbed cylindrical shells under complex force effect (Russian), Prikl Mekh (Appl Mech) **34**(12) 55-61 (1998), 10A687
Existence and uniqueness for the linear Koiter model for shells with little regularity, Quart Appl Math **57**(2) 317-337 (Jun 1999), 10A688
Solution of the problem on the stressed state of nonround cylindrical shells of variable thickness (Russian), Prikl Mekh (Appl Mech) **34**(12) 26-33 (1998), 10A689
Instabilities in torispheres and toroids under suddenly applied external pressure, Int J Impact Eng **22**(5) 511-530 (May 1999), 10A726
Stability analysis of viscoelastic thin shallow hyperbolic paraboloid shells, Int J Solids Struct **36**(28) 4209-4223 (Oct 1999), 10A728
Three dimensional analysis of piezoelectric circular cylindrical shell of finite length, Acta Mech **134**(3-4) 235-249 (1999), 10A759
Orthotropic pressure vessels subject to local loads, Int J Pressure Vessels Piping **76**(6) 387-392 (May 1999), 10A1024
Defect-free 4-node flat shell element: NMS-4F element, Struct Eng and Mech **8**(2) 207-231 (Aug 1999), 11A61
Certain properties of the equations of shells reinforced with constant cross section fibers, Composite Mech Des **3**(2) 17-31 (1997), 11A523
Theoretical analysis of composite shell intersections, J Strain Anal Eng Des **34**(2) 107-116 (Mar 1999), 11A550
Axial compression of metallic spherical shells between rigid plates, Thin-Walled Struct **34**(1) 21-41 (May 1999), 11A576
Finite fundamental member method for calculating thin-webbed steel pipes, J Struct Eng (India) **25**(2) 139-144 (Jul 1998), 11A577
Introduction to Linear Shell Theory (Gauthier-Villars, France, 1998) 12R13
Application of nonhomogeneous solution for equations of slender ring shells to overall-bending problem of Ω-shaped bellows, J Shanghai Univ **3**(2) 121-126 (Jun 1999), 12A661
Catastrophic failure of a polypropylene tank - Part II: Comparison of the DVS 2205 code of practice and the design of the failed tank, Eng Failure Anal **6**(4) 215-232 (Aug 1999), 12A798
Orthotropic cylindrical pressure vessels under line load, Int J Pressure Vessels Piping **76**(7) 455-459 (Jun 1999), 12A954

260F. Anisotropic membranes, plates, shells

Analysis of free damped vibrations of laminated composite conical shells, Composite Struct **41**(1) 39-47 (Jan 1998), 1A639
Cylindrical bending of laminated cylindrical shells using a modified zig-zag theory, Struct Eng and Mech **6**(5) 497-516 (Jul 1998), 1A644
Piezothermoelastic solution for angle-ply laminated plate in cylindrical bending, Struct Eng and Mech **6**(5) 529-542 (Jul 1998), 1A648
Process-induced stress analysis of composite laminates using semi-analytical Hamiltonian method, Composite Struct **41**(1) 49-55 (Jan 1998), 1A649
Interlaminar thermal stresses in polar-anisotropic circular plates, J Reinforced Plastics Composites **17**(11) 1024-1035 (1998), 1A689
Plain problems on the stressed state of the orthotropic plate with bilateral outer recess under pure extension and shift, Prikl Mekh (Appl Mech) **34**(1) 71-78 (1998), 1A690
Transient response of stiffened composite submersible hull subjected to underwater explosive shock, Composite Struct **41**(1) 27-37 (Jan 1998), 1A995
Efficient FE modeling of composite beams and plates using higher-order theories and an accurate composite beam element, Composite Struct **41**(2) 159-165 (Feb 1998), 2A31
Prediction and measurement of nonlinear strain response of composite plates, Composite Struct **41**(2) 137-149 (Feb 1998), 2A674
Nonlinear theory for composite laminated shells with interfacial damage, J Appl Mech **65**(3) 711-718 (Sep 1998), 2A695
Nonstandard method of macro-modeling of nonperiodic multilayered plates, J Theor Appl Mech **36**(2) 263-278 (1998), 2T701
Stress analysis method for bi-axially loaded fastener hole in composite laminate of finite geometry, J Appl Mech **65**(3) 787-790 (Sep 1998), 2A702
Stressed state of the composite transversally-isotropic spherical shell with a round hole (Russian), Prikl Mekh (Appl Mech) **34**(5) 76-85 (1998), 2A703
Two methods of modeling of periodic nonhomogeneous elastic plates, J Theor Appl Mech **36**(2) 291-303 (1998), 2T704
Effect of correlation on reliability-based design of composite plate for buckling, AIAA J **36**(9) 1706-1713 (Sep 1998), 2A948
Free vibration of composite circular cylindrical shells with random material properties - Part I: General theory, Composite Struct **41**(3-4) 331-338 (Mar-Apr 1998), 3A170
Nonlinear viscoelastic analysis of composite plates and shells, Composite Struct **41**(3-4) 265-272 (Mar-Apr 1998), 3A517
Analysis of composite plates using various plate theories - Part 2: FE model and numerical results, Struct Eng and Mech **6**(7) 727-746 (Oct 1998), 3A615
Approximate solutions to the orthotropic pinched cylinder problem, Composite Struct **42**(1) 73-91 (May 1998), 3A616
Edge effects in laminated composites with pin-loaded holes, AIAA J **36**(10) 1883-1893 (Oct 1998), 3A617
Experimental study of the influence of plate end anchorage of carbon fiber composite plates used to strengthen reinforced concrete beams, Composite Struct **42**(2) 175-188 (Jun 1998), 3A618
Flugge shell theory and solution for orthotropic cylindrical shells under pinching loads, Composite Struct **42**(1) 53-72 (May 1998), 3A619
Influence of boundary conditions for a thin laminated rotating cylindrical shell, Composite Struct **41**(3-4) 215-228 (Mar-Apr 1998), 3A620
Modeling ascent configurations of strained high-altitude balloons, AIAA J **36**(10) 1901-1910 (Oct 1998), 3A621
Three-dimensional wave propagation in composite cylindrical shells, Composite Struct **42**(2) 153-167 (Jun 1998), 3A622
Variational bounds of elastic constants in transversely isotropic plates, Arch Appl Mech **68**(7-8) 445-456 (Sep 1998), 3A623
Effect of multiple delamination on postbuckling behavior of laminated composite plates, Composite Struct **42**(1) 1-12 (May 1998), 3A769
Natural frequency characteristics of composite plates with random properties, Struct Eng and Mech **6**(6) 659-671 (Sep 1998), 4A614
Analysis of composite plates using various plate theories - Part 1: Formulation and analytical solutions, Struct Eng and Mech **6**(6) 583-612 (Sep 1998), 4A649
One representation of results of solutions for the equations of thermoelastic physically orthotropic shells (Russian), Prikl Mekh (Appl Mech) **34**(6) 64-67 (1998), 4A650
Orthotropic cylindrical shell problem with prescribed radius, Math Eng Industry **7**(1) 57-70 (1998), 4A651
Semi-analytical solutions for an orthotropic cylindrical shell problem with a prescribed radius, Eur J Mech A **17**(5) 865-879 (1998), 4A652
Intralaminar failure stresses due to centrifugal forces in polar-anisotropic circular plates, J Composite Mat **32**(21) 1948-1963 (1998), 4A825
Arbitrarily and the periodically laminated elastic hollow sphere: Exact solutions and homogenization, Arch Appl Mech **68**(9) 579-588 (Nov 1998), 5A551
Optimum design of laminated composite plates with cutouts using a genetic algorithm, Composite Struct **42**(3) 265-279 (Jul 1998), 5A769
Optimal bead orientation of 3D shell-plate structures, Finite Elements Anal Des **31**(1) 55-71 (Nov 1998), 6A20
Finite element model with continuous transverse shear stress for composite laminates in cylindrical bending, Finite Elements Anal Des **31**(2) 153-164 (Dec 1998), 6A48
Damping improvement of machine tool columns with polymer matrix fiber composite material, Composite Struct **43**(2) 155-163 (Oct 1998), 6A123
Elasticity solution and free vibrations analysis of laminated anisotropic cylindrical shells, Struct Eng and Mech **7**(2) 181-202 (Feb 1999), 6A603

Transient responses of geometrically nonlinear laminated composite shell structures, Finite Elements Anal Des **31**(2) 117-134 (Dec 1998), 6A606
Characterization of impact in composite plates, Composite Struct **43**(1) 15-24 (Sep 1998), 6A612
Determining effective contact stiffness between striker and composite shell, Composite Struct **43**(2) 137-145 (Oct 1998), 6A615
Elastoplastic stress analysis in stainless steel fiber reinforced aluminum metal matrix laminated plates loaded transversely, Composite Struct **43**(2) 147-154 (Oct 1998), 6A618
Interactions between numerical and experimental approaches in composite structure dynamics, Composite Struct **43**(2) 127-135 (Oct 1998), 6A622
Reliability analysis of mid-plane symmetric laminated plates using direct simulation method, Composite Struct **43**(1) 1-13 (Sep 1998), 6A628
Matching technique of postprocess method using displacement fields of higher order plate theories, Composite Struct **43**(1) 71-78 (Sep 1998), 6A646
Approaches to solution of problems of statics for shells with nonhomogeneous structure (Russian), Prikl Mekh (Appl Mech) **34**(10) 42-49 (1998), 6A658
Mixed layer-wise models for multilayered plates analysis, Composite Struct **43**(1) 57-70 (Sep 1998), 6A669
Physically nonlinear problems of the theory of orthotropic composite shells with a cultivilinear hole (Russian), Prikl Mekh (Appl Mech) **34**(9) 28-32 (1998), 6A670
Spectral decomposition of the compliance tensor for anisotropic plates, J Elast **51**(2) 89-103 (1998), 6A671
Study of laminated orthotropic shells of revolution from viscoelastic thermorheological complex materials (Russian), Prikl Mekh (Appl Mech) **34**(8) 82-90 (1998), 6A672
Thermomechanical behavior of orthotropic round plate of variable thickness (Russian), Prikl Mekh (Appl Mech) **34**(7) 78-83 (1998), 6A1402
Variational approach for straight edge effect stresses in laminated composites, Composite Struct **43**(3) 243-254 (Nov 1998), 7A540
Deep doubly curved multilayered shell theory, AIAA J **37**(1) 100-109 (Jan 1999), 7A570
Derivation of degenerate von Karman equations for strongly anisotropic plates, Quart Appl Math **57**(1) 19-36 (Mar 1999), 7T571
Fatigue properties of orthotropic decks on railway bridges, Eng Struct **21**(7) 639-652 (Jul 1999), 7A572
Laminated composite plates with integrated sensors and actuators, Eng Struct **21**(7) 568-593 (Jul 1999), 7A573
Refined theory of laminated anisotropic shells for the solution of thermal stress problems, J Thermal Stresses **22**(1) 75-100 (Jan-Feb 1999), 7A574
Transient response of submerged orthotropic cylindrical shells exposed to underwater shock, Composite Struct **43**(3) 179-193 (Nov 1998), 7A575
Optimum design of composite plates using response surface method, Composite Struct **43**(3) 233-242 (Nov 1998), 7A814
Introduction to Modern Anisotropic Elasticity (Begell House, New York, 1998) 8R14
Thermoviscoelastic analysis of composite structures using a triangular flat shell element, AIAA J **37**(2) 238-247 (Feb 1999), 8A42
Study of the effect of in-plane and interlaminar stresses on damping in fluid-filled laminated composite cylinders, Composite Struct **43**(4) 301-320 (Dec 1998), 8A615
Experimental, numerical and analytical results for bending and buckling of rectangular orthotropic plates, Composite Struct **43**(4) 289-299 (Dec 1998), 8A634
Response of composite shells with cutouts to internal pressure and compression loads, AIAA J **37**(2) 232-237 (Feb 1999), 8A635
Modeling failure in notched plates with micropolar strain softening, Composite Struct **44**(1) 71-79 (Jan 1999), 8A789
Transverse vibrations of simply supported orthotropic rectangular plates with rectangular and circular cut-outs carrying an elastically mounted concentrated mass, Struct Eng and Mech **7**(5) 503-512 (May 1999), 9A165
Free vibrations of rectangular composite plates with point-supports using static beam functions, Composite Struct **44**(2-3) 145-154 (Feb-Mar 1999), 9A648
Effect of thickness on the large elastic deformation behavior of laminated shells, Composite Struct **44**(2-3) 117-128 (Feb-Mar 1999), 9A666
Nonhomogeneous response of cross-ply laminated elastic plates using a higher-order theory, Composite Struct **44**(4) 297-305 (Apr 1999), 9A668
Similitude study for a laminated cylindrical tube under tensile, torsion, bending, internal and external pressure - Part I: Governing equations, Composite Struct **44**(4) 221-229 (Apr 1999), 9A697
Similitude study for a laminated cylindrical tube under tension, torsion, bending, internal and external pressure - Part II: Scale models, Composite Struct **44**(4) 231-236 (Apr 1999), 9A698
Experimental response of glass-reinforced plastic cylinders under axial compression, Marine Struct **11**(9) 347-371 (Nov 1998), 9A714
Large thermal deflection analysis of composite plates using finite strip method, Adv in Struct Eng **2**(2) 137-146 (Feb 1999), 9A995
Buckling of woven GFRP cylinders under concentric and eccentric compression, Composite Struct **45**(1) 13-27 (May 1999), 10A625
Flexural analysis of laminated composite plates, Composite Struct **45**(1) 51-69 (May 1999), 10A651
Natural frequencies of a multilayer composite plate with shape memory alloy wires, Finite Elements Anal Des **32**(2) 71-83 (Apr 1999), 10A655
Axisymmetric bending of functionally graded circular and annular plates, Eur J Mech A **18**(2) 185-199 (Mar-Apr 1999), 10A680
Cylindrical elastic-plastic shells with moderately large rotations, Eng Trans **46**(2) 165-187 (1998), 10A690
Dynamics of thin plates with a periodic structure, Eng Trans **46**(1) 73-87 (1998), 10T691
Stress of anisotropic plate with the angular inclusion (Russian), Prikl Mekh (Appl Mech) **35**(2) 76-84 (1999), 10A692
Thermo-elastic response of monolithic and composite plates to a thermal shock, Mech Mat **31**(5) 351-365 (May 1999), 10A1002
Free-edge interlaminar stress analysis of composite laminates by extended Kantorovich method, AIAA J **37**(5) 656-660 (May 1999), 11T93
Determination of the reference-axes for bimodulus cross-ply fibrous composites plates, J Struct Eng (India) **25**(2) 131-137 (Jul 1998), 11A532
New theory for accurate thermal-mechanical flexural analysis of symmetric laminated plates, Composite Struct **45**(3) 227-232 (Jul 1999), 11A534
Moments in composite beams and slabs: A comparative study, J Struct Eng (India) **25**(4) 267-272 (Jan 1999), 11T565
Asymptotic analysis of anisotropic nonlinear elastic plates, Bull Polish Acad Sci Tech Sci **47**(2) 115-126 (1999), 11A571
Large deflection of composite laminated plates under transverse and in-plane loads and resting on elastic foundations, Composite Struct **45**(2) 115-123 (Jun 1999), 11A572
Plastic design of orthotropic circular plates, J Struct Eng (India) **25**(4) 227-235 (Jan 1999), 11A573
Thermoelastic bending of orthotropic plates, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 135-145 (1999), 11A575
Buckling of filament-wound laminated conical shells under axial compression, AIAA J **37**(6) 778-781 (Jun 1999), 11T578
Non-axisymmetric dynamic response of buried orthotropic cylindrical shells under moving load, Struct Eng and Mech **8**(1) 39-51 (Jul 1999), 11A579
Stress distribution around triangular holes in anisotropic plates, Composite Struct **45**(3) 171-183 (Jul 1999), 11A580
Symmetric deformation analysis of symmetric laminated plates including transverse shear and normal effects, Composite Struct **45**(3) 205-226 (Jul 1999), 11A581
Optimization of nonhomogeneous facesheets in composite sandwich plates, Struct Optim **17**(2-3) 199-207 (Apr 1999), 11A869
Approximate analyses of reinforced concrete slabs, Struct Eng and Mech **8**(1) 1-18 (Jul 1999), 11A889
Spline FMS postbuckling analysis of shear-deformable rectangular laminates, Thin-Walled Struct **34**(2) 163-178 (Jun 1999), 12A669
Influence of bend-twist coupling on the shear buckling response of thin laminated composite plates, Thin-Walled Struct **34**(2) 97-114 (Jun 1999), 12A674

260G. Stiffened and sandwich plates and shells

Vibration analysis of delaminated composites plates under axial load, Mech Struct Machines **26**(2) 195-218 (1998), 1A158
Anti-symmetric angle-ply laminated thick cylindrical panels, Int J Solids Struct **35**(28-29) 3717-3735 (Oct 1998), 1A629
Analysis of eccentrically stiffened plates with mixed boundary conditions using differential quadrature method, Appl Math Model **22**(4-5) 251-275 (Apr-May 1998), 1A691
Contact behavior of an orthotropic laminated beam indented by a rigid cylinder, Composites Sci Tech **58**(3-4) 505-513 (Mar-Apr 1998), 1A692
Efficient linear transverse normal stress analysis of layered composite plates, Comput Struct **68**(6) 643-652 (Sep 1998), 1A693
Interaction of bulging forms under the supercritical behavior of the reinforced thin-walled prismatic folded systems, Prikl Mekh (Appl Mech) **34**(3) 86-90 (1998), 1A694
Load bearing capacity of longitudinal stiffened shells under axial loading: Are our standards too conservative? (German), Bauingenieur **73**(6) 292-298 (Jun 1998), 1A695
Local behavior of discretely stiffened composite plates and cylindrical shells, Composite Struct **41**(1) 13-26 (Jan 1998), 1A696
Variation method of comparative analysis of the specified models of laminated orthotropic plates, Prikl Mekh (Appl Mech) **34**(1) 79-84 (1998), 1A697
Postbuckling of imperfect stiffened cylindrical shells under combined external pressure and heating, Appl Math Mech **19**(5) 411-423 (May 1998), 1A707
Geometric nonlinear static analysis of laminated hat stiffened plates, J Reinforced Plastics Composites **17**(14) 1264-1280 (1998), 2A705
Thermal characterization of honeycomb core sandwich structures, J Spacecraft Rockets **35**(4) 539-545 (Jul-Aug 1998), 2A1300
Assessment of models for analysis of singly-curved sandwich panels, Composite Struct **41**(3-4) 289-301 (Mar-Apr 1998), 3A624
Localized formulations for thick "sandwich" laminated and composite structures, Comput Mech **22**(3) 211-224 (Sep 1998), 3A625
Penetration energy of sandwich panel elements under static and dynamic loading - Part I, Composite Struct **42**(2) 119-134 (Jun 1998), 3A626
Penetration energy of sandwich panel elements under static and dynamic loading - Part II, Composite Struct **42**(2) 135-152 (Jun 1998), 3A627
Shear properties of a sandwich composite containing defects, Composite Struct **42**(2) 107-118 (Jun 1998), 3A628
Skin-stiffener stresses in composite plates and shallow shells, J Thermoplastic Composite Mat **11**(5) 455-465 (Sep 1998), 3A629
Solution of a laminated cylindrical shell using an unconstrained third-order theory, Comput Struct **69**(3) 291-303 (Nov 1998), 3A630
Postbuckling and failure of stiffened composite panels under axial compression, Composite Struct **42**(1) 13-21 (May !998), 3A636
Rib separation in postbuckling stiffened shear panels, Composite Struct **41**(3-4) 339-352 (Mar-Apr 1998), 3A637
Optimal design of general stiffened composite circular cylinders for global buckling with strength constraints, Composite Struct **41**(3-4) 243-252 (Mar-Apr 1998), 3A642
Mechanics of Sandwich Structures (Kluwer, Netherlands, 1998) 4N16
Strengthening Structural Systems Using Externally Bonded FRP Composites (CRC Press, Boca Raton FL, 1998) 4N19
Finite element free vibration analysis of smart laminated composite beams and plates, J Intelligent Mat Syst Struct **9**(1) 20-28 (Jan 1998), 4A632
Analytical method for the ultimate compressive strength and effective plating of stiffened panels, J Construct Steel Res **49**(1) 43-68 (Jan 1999), 4A653
Design of shells and tanks in the aerospace industry: Some practical aspects, Progress Struct Eng Mat **1**(4) 404-414 (Jul 1998), 4A654
Dynamic modeling and neural control of composite shells using piezoelectric devices, J Intelligent Mat Syst Struct **9**(1) 29-43 (Jan 1998), 4A655
Eigenvalue sensitivity analysis of stiffened plates with respect to the location of stiffeners, Struct Optim **16**(2-3) 155-161 (Oct 1998), 4A656
Stress concentration near two holes in a cylindrical shell of composite material (Russian), Prikl Mekh (Appl Mech) **34**(6) 68-72 (1998), 4A657
Stability and initial supercritical behavior of shells of composites: Survey (Russian), Prikl Mekh (Appl Mech) **34**(6) 3-38 (1998), 4A679
Refined multilayered FE model applied to linear and nonlinear analysis of sandwich plates, Composites Sci Tech **58**(10) 1553-1569 (Oct 1998), 5A31
Stress concentration and local behavior of prestressed composite laminates-sandwich plates with overhangs in cylindrical bending, Composite Struct **42**(3) 203-215 (Jul 1998), 5A527
Method for static analysis of variable thickness sandwich plates, Composite Struct **42**(3) 239-243 (Jul 1998), 5A552
Study on ultimate strength of stiffened plating under compression (Chinese), J Huazhong Univ Sci Tech **26**(11) 95-97 (Nov 1998), 5A553
Predicting the buckling load of anisotropic sandwich panels: An approach including shear deformation of the faces, Composite Struct **42**(3) 245-255 (Jul 1998), 5A566
High-order theory for dynamic buckling and postbuckling analysis of laminated cylindrical shells, J Pressure Vessel Tech **121**(1) 94-102 (Feb 1999), 5A568
Finite element simulation of the test procedure of stiffened panels, Marine Struct **11**(3) 75-99 (Apr 1998), 6A19
Theory of vibrations of three-layered plates (Russian), Prikl Mekh (Appl Mech) **34**(9) 69-75 (1998), 6A162
Numerical determination of frequencies and discontinuous forms of free oscillations of a thick long shell regularly strengthened by the circular ribs (Russian), Prikl Mekh (Appl Mech) **34**(8) 68-74 (1998), 6A170
Study of laminated orthotropic shells of revolution from viscoelastic thermorheological complex materials (Russian), Prikl Mekh (Appl Mech) **34**(8) 82-90 (1998), 6A672
Adhesively bonded steel corrugated core sandwich construction for marine applications, Marine Struct **11**(4-5) 185-204 (May-Jun 1998), 6A673
Analytical solution of rectangular laminated plates by higher-order theory, Appl Math Mech **19**(8) 793-806 (Aug 1998), 6A674
Mathematical modeling of dynamic behavior of the structure-inhomogeneous cases of the blasting chamber (Russian), Prikl Mekh (Appl Mech) **34**(7) 11-19 (1998), 6A675
Numerical investigation of tripping, Marine Struct **11**(4-5) 159-183 (May-Jun 1998), 6A676
Peculiarities of projective approach use in the construction of applied theory of multilayer shells dynamics (Russian), Prikl Mekh (Appl Mech) **34**(7) 57-63 (1998), 6A677
Stress-strained state of elastic flexible multilayer shells (Russian), Prikl Mekh (Appl Mech) **34**(8) 94-102 (1998), 6A678
Influence of the local structural damage of the multilayered thick plate material to the stress distribution (Russian), Prikl Mekh (Appl Mech) **34**(9) 64-68 (1998), 6T932
Systematic topology optimization approach for optimal stiffener design, Struct Optim **16**(4) 280-288 (Dec 1998), 6A1023
Free vibration of a laminated composite shell of revolution: Effects of shear nonlinearity, Int J Mech Sci **41**(6) 649-661 (Jun 1999), 7A157
Vibration of completely free composite plates and cylindrical shell panels by a higher-order theory, Int J Mech Sci **41**(8) 891-918 (Aug 1999), 7A170
Bending of unbounded multilayered beams and plates, Mech Res Commun **26**(1) 69-74 (Jan-Feb 1999), 7T556
Active control model of laminated piezothermoelastic plate, Int J Solids Struct **36**(13) 1925-1947 (May 1999), 7A576
Crack bridging model for bonded plates subjected to tension and bending, Int J Solids Struct **36**(13) 1985-2014 (May 1999), 7A577
Moment function formulation of stiffened plates (Chinese), Chinese J Comput Mech **16**(1) 8-16 (Feb 1999), 7A578
Stress analysis of finite composite laminates with elliptical inclusion, Comput Struct **70**(3) 357-361 (Feb 1999), 7A579
Analysis of a sandwich plate containing a piezoelectric core, Smart Mat Struct **8**(1) 31-40 (Feb 1999), 8A636
Failure of sandwich to laminate tapered composite structures, AIAA J **37**(2) 227-231 (Feb 1999), 8A637
Optimum design of laminated composite foam-filled sandwich plates subjected to strength constraint, Int J Solids Struct **36**(19) 2865-2889 (Jul 1999), 8A638
Tilting stiffness of elastic layers bonded between rigid plates, Int J Solids Struct **36**(17) 2485-2505 (Jun 1999), 8A639
Accurate equations for laminated composite deep thick shells, Int J Solids Struct **36**(19) 2917-2941 (Jul 1999), 8A641
Low velocity impact damage characteristics of Z-fiber reinforced sandwich panels - An experimental study, Composite Struct **43**(4) 275-288 (Dec 1998), 8A815
Compression, flexure and shear properties of a sandwich composite containing defects, Composite Struct **44**(4) 263-278 (Apr 1999), 9A663
Failure mode maps for honeycomb sandwich panels, Composite Struct **44**(4) 237-252 (Apr 1999), 9A699
Heat conduction in ring-stiffened shells of revolution: A structural mechanics analogy, Adv in Struct Eng **2**(2) 87-102 (Feb 1999), 9A700
Influence of MSD crack pattern on the residual strength of flat stiffened sheets, Comput Mech **23**(1) 39-52 (Feb 1999), 9A701
Influence of compression-bending coupling on the stability behavior of anisotropic laminated panels, Appl Math Mech **20**(1) 18-26 (Jan 1999), 9A710
Boundary Element Methods for Damage Tolerance Design of Aircraft Structures (Comput Mech, Billerica MA, 1998) 10R12
Energy absorption characteristics of stitched composite sandwich panels, J Composite Mat **33**(8) 712-728 (1999), 10A647
Nonlinear response of laminated plates and shells to thermomechanical loading: Implications of violation of interlaminar shear traction continuity requirement, Int J Solids Struct **36**(27) 4111-4147 (Sep 1999), 10A678
Dynamic deformation of layered shells made of viscoelastic materials (Russian), Prikl Mekh (Appl Mech) **35**(1) 58-62 (1999), 10A693
Experimental study on structural behavior and vibrational characteristics of sandwich plate with aluminum honeycomb core, Int J Offshore Polar Eng **8**(2) 148-154 (Jun 1998), 10A694

Mechanical behavior of cellular core for structural sandwich panels, Composites Part A Appl Sci and Manuf **30A**(6) 767-779 (1999), 10A695
Optimum design of laminated composite plates undergoing large amplitude oscillations, Appl Composite Mat **6**(2) 87-98 (Mar 1999), 10A696
Polyhedrally stiffened shells for undersea pressure hulls, Int J Offshore Polar Eng **8**(3) 207-212 (Sep 1998), 10A697
Synthesis of layered shells from a finite set of viscoelastic materials, J Austral Math Soc B **40**(4) 525-534 (Apr 1999), 10A698
Optimal design of thick laminated composite plates for maximum thermal buckling load, J Thermal Stresses **22**(3) 259-273 (Apr 1999), 10A718
Crack tip fields of orthotropic composite plate under bending, Appl Math Mech **20**(2) 205-212 (Feb 1999), 10A902
Behavior of Sandwich Structures of Isotropic and Composite Materials (Technomic, Lancaster PA, 1999) 11R15
Asymptotic theory of laminated circular conical shells, Int J Eng Sci **37**(8) 977-1005 (Jun 1999), 11A582
Structural behavior of sandwich panel shear walls: An experimental analysis, Mat Struct **32**(219) 331-341 (Jun 1999), 11A583
Transverse-stiffener requirements for the postbuckling behavior of a plate in shear, Thin-Walled Struct **34**(1) 43-63 (May 1999), 11A602
Optimization of nonhomogeneous facesheets in composite sandwich plates, Struct Optim **17**(2-3) 199-207 (Apr 1999), 11A869
Numerical study on RC flat plates subjected to combined axial and transverse load, Struct Eng and Mech **8**(2) 137-150 (Aug 1999), 11A905
Simple approach for the analysis of embedded ply drops in composite and sandwich laminates, Composites Sci Tech **59**(8) 1213-1226 (Jun 1999), 12A646
Problem of the equilibrium of a plate reinforced with stiffeners, J Appl Math Mech **63**(1) 79-83 (1999), 12A662

260H. Plates and shells on foundations

Vibration analysis of delaminated composites plates under axial load, Mech Struct Machines **26**(2) 195-218 (1998), 1A158
Corrected 2D model of the subsoil response, Mech Res Commun **25**(4) 421-426 (Jul-Aug 1998), 1T698
Elastic deformation of a plate in a rigid screen and acoustic waveguide under the effect of weak-shock waves (Russian), Prikl Mekh (Appl Mech) **34**(5) 104-110 (1998), 2A350
Postbuckling of composite laminated plates under biaxial compression combined with lateral pressure and resting on elastic foundations, J Strain Anal Eng Des **33**(4) 253-261 (Jul 1998), 4A668
Thermal postbuckling of imperfect Reissner-Mindlin plates with two free side edges and resting on elastic foundations, Struct Eng and Mech **6**(6) 643-658 (Sep 1998), 4A669
Elastic Analysis of Raft Foundations (Telford, UK, 1998) 5R14
Free vibration of cantilevered symmetrically laminated thick trapezoidal plates, Int J Mech Sci **41**(6) 685-702 (Jun 1999), 7A152
Boundary element formulation for a Reissner plate on a Pasternak foundation, Comput Struct **70**(5) 515-532 (Mar 1999), 7A580
Boundary element method solution for plates on elastic half-space with unilateral contact, Eng Anal Boundary Elements **23**(2) 189-194 (Feb 1999), 7A581
Fundamental solution and BE analysis of thick plates on Winkler foundation, Comput Struct **70**(3) 325-336 (Feb 1999), 7A582
Nonlinear bending of Reissner-Mindlin plates with free edges under transverse and in-plane loads and resting on elastic foundations, Int J Mech Sci **41**(7) 845-864 (Jul 1999), 7A583
Method for the analysis of plates on a two-parameter foundation, Int J Solids Struct **36**(19) 2891-2915 (Jul 1999), 8A640
Large deflection of composite laminated plates under transverse and in-plane loads and resting on elastic foundations, Composite Struct **45**(2) 115-123 (Jun 1999), 11A572
Effects of elastic foundation on the dynamic stability of cylindrical shells, Struct Eng and Mech **8**(2) 193-205 (Aug 1999), 11A584

260I. Thick plates and shells

Stress concentration in thick cylindrical shells with an arbitrary cutout, Appl Math Mech **19**(5) 399-410 (May 1998), 1A528
Differential cubature method for static solutions of arbitrarily shaped thick plates, Int J Solids Struct **35**(28-29) 3655-3674 (Oct 1998), 1A699
Optimizing lamination of hybrid thick-walled cylindrical shell under external pressure by using a genetic algorithm, J Thermoplastic Composite Mat **11**(5) 417-428 (Sep 1998), 3A631
Exact thermoelastic solution for an axisymmetric problem of thick closed laminated shells, J Thermal Stresses **21**(7) 751-761 (Oct 1998), 4A1405
Three dimensional elasticity solution for vibration problem of thick plate, Appl Math Mech **19**(7) 615-624 (Jul 1998), 5A142
Temperature stresses in thick circular cylindrical shells used in nuclear reactors with and without uniform internal heat generation within the shell wall thickness, Proc Inst Mech Eng C **212**(C7) 547-554 (1998), 5A554
Temperature stresses in thick wall circular cylindrical shells used in nuclear reactors with exponential heat generation within the shell wall thickness, Proc Inst Mech Eng C **212**(C7) 555-565 (1998), 5A555
Fatigue strength and crack propagation life of in-service high pressure tubular reactor under residual stress, Int J Pressure Vessels Piping **75**(12) 871-877 (Oct 1998), 5A649
Computer-assisted generation of yield-line patterns for uniformly loaded isotropic slabs using an optimization strategy, Eng Struct **21**(6) 488-496 (Jun 1999), 6A649
Deflections of partially composite continuous beams: A simple approach, J Construct Steel Res **49**(3) 291-301 (Mar 1999), 7A584
Accurate equations for laminated composite deep thick shells, Int J Solids Struct **36**(19) 2917-2941 (Jul 1999), 8A641
Equations for thick elastic plates with partially electroded piezoelectric actuators and higher order electric fields, Smart Mat Struct **8**(1) 73-82 (Feb 1999), 8A642
Review of numerical prediction methods for silo wall pressures, Adv in Struct Eng **2**(2) 119-134 (Feb 1999), 9A702
Finite element analysis of thick homogeneous plates, Comput Struct **71**(4) 469-480 (May 1999), 10A699
Deterministic structural and fracture mechanics analyses of reactor pressure vessel for pressurized thermal shock, Struct Eng and Mech **8**(1) 103-118 (Jul 1999), 11A835
Reasonable method for contracting general element DM4 of thick and thin plate with effectual and reliable numerical solutions, Appl Math Mech **20**(3) 319-327 (Mar 1999), 12A38

260J. Inflatable membranes

Large displacement analysis for ideally flexible sails, Eur J Mech A **17**(4) 619-636 (1998), 1A276
Exact solutions for elastic membrane disks, Math Mech Solids **3**(4) 393-410 (Dec 1998), 5A545

260K. Rotating discs, blades, and shells

Elastic-plastic stresses in a rotating solid disk, Int J Mech Sci **41**(3) 269-282 (Mar 1999), 4A658
Rotating anisotropic disc of uniform strength, Int J Mech Sci **41**(6) 639-648 (Jun 1999), 7A585
Elastic-plastic rotating disk with rigid inclusion, Mech Struct Machines **27**(1) 117-128 (1999), 8A643
Dynamic study of a structure with flexion-torsion coupling in the presence of dry friction, Nonlinear Dyn **18**(4) 321-337 (Apr 1999), 12A153

260Y. Computational techniques

Finite element formulation of the Ogden material model with application to rubber-like shells, Int J Numer Methods Eng **42**(7) 1279-1305 (Aug 1998), 1A547
Discrete Korn's type inequality in subspaces and iterative methods for thin elastic structures, Comput Methods Appl Mech Eng **160**(1-2) 23-37 (Jul 1998), 1A652
Analysis of eccentrically stiffened plates with mixed boundary conditions using differential quadrature method, Appl Math Model **22**(4-5) 251-275 (Apr-May 1998), 1A691
Differential cubature method for static solutions of arbitrarily shaped thick plates, Int J Solids Struct **35**(28-29) 3655-3674 (Oct 1998), 1A699
Constructing accurate recovered stress fields for the FE solution of Reissner-Mindlin plate bending problems, Comput Methods Appl Mech Eng **160**(1-2) 175-191 (Jul 1998), 1A700
New hybrid-mixed variational approach for Reissner-Mindlin plates with MiSP model, Int J Numer Methods Eng **42**(7) 1149-1179 (Aug 1998), 1A701
New one-point quadrature, general nonlinear quadrilateral shell element with physical stabilization, Int J Numer Methods Eng **42**(7) 1307-1338 (Aug 1998), 1A702
Buckling of circular cylindrical shells by the Differential Quadrature Method, Int J Pressure Vessels Piping **75**(4) 347-353 (Apr 1998), 1A722
Optimization of local heating for a spherical shell made of titanium alloy BT-23, Arch Mech **50**(1) 113-126 (1998), 1A959
Hierarchic FEs for thin plates and shells, Comput Assisted Mech Eng Sci **5**(2) 151-160 (1998), 2A33
Analysis of rectangular thin plates and plate structures basing on the Vlasov's variational procedure, Comput Assisted Mech Eng Sci **5**(2) 115-128 (1998), 2A120
Static analysis of Reissner-Mindlin plates by differential quadrature element method, J Appl Mech **65**(3) 705-710 (Sep 1998), 2A698
Accuracy of P-version elements for the Reissner-Mindlin plate problem, Int J Numer Methods Eng **43**(1) 51-67 (Sep 1998), 2A706
Analysis and optimization of bellows with general shape, J Pressure Vessel Tech **120**(4) 325-333 (Nov 1998), 2A707
Galerkin method for static analysis of simply supported plates of general shape, Comput Struct **69**(1) 1-9 (Oct 1998), 2A708
General axisymmetry problems for shells of revolution and analyses of integral equation, Appl Math Mech **19**(6) 503-512 (Jun 1998), 2A709
Levi functions for linear elliptic systems with variable coefficients including shell equations, Comput Mech **22**(1) 93-99 (Jul 1998), 2A710
Numerical analysis of junctions between thin shells - Part 1: Continuous problems, Comput Methods Appl Mech Eng **161**(3-4) 349-363 (Aug 1998), 2A711
Numerical analysis of junctions between thin shells - Part 2: Approximation by FEMs, Comput Methods Appl Mech Eng **161**(3-4) 365-387 (Aug 1998), 2A712
Serendipity FEs for the analysis of laminated plates, Comput Struct **69**(1) 37-51 (Oct 1998), 2A713
Substructure preconditioners for nonconforming plate elements, J Comput Math **16**(4) 289-304 (Jul 1998), 2A714
Unique decomposition of element stiffness numeric matrices for three-noded plate bending triangles, Int J Numer Methods Eng **43**(3) 441-477 (Oct 1998), 2A715
Near crack line elastic-plastic analysis for a finite plate loaded by two pairs of antiplane point forces, Appl Math Mech **19**(6) 547-553 (Jun 1998), 2A891
Plate Bending Analysis with Boundary Elements (Comput Mech, UK, 1998) 3N7
Approximate solutions to the orthotropic pinched cylinder problem, Composite Struct **42**(1) 73-91 (May 1998), 3A616
Flugge shell theory and solution for orthotropic cylindrical shells under pinching loads, Composite Struct **42**(1) 53-72 (May 1998), 3A619
Modeling ascent configurations of strained high-altitude balloons, AIAA J **36**(10) 1901-1910 (Oct 1998), 3A621
Basic issues in the FE simulation of extended end plate connections, Comput Struct **69**(3) 361-382 (Nov 1998), 3A632
New lock-free, material FE for flexure of moderately thick rectangular composite plates, Comput Struct **69**(5) 609-623 (Dec 1998), 3A633
Steady motions of translating, twisted webs, Int J Non-Linear Mech **34**(2) 247-257 (Mar 1999), 4A641
Analysis of a mixed FEM for the Reissner-Mindlin plate problems, Comput Methods Appl Mech Eng **163**(1-4) 71-85 (Sep 1998), 4A659
Assessment of some preconditioning techniques in shell problems, Commun Numer Methods Eng **14**(10) 897-906 (Oct 1998), 4A660
Enhanced assumed strain elements and locking in membrane problems, Comput Methods Appl Mech Eng **165**(1-4) 155-174 (Nov 1998), 4A661
Four-node solid shell element formulation with assumed strain, Int J Numer Methods Eng **43**(5) 909-924 (Nov 1998), 4A662
Geometric nonlinear analysis of space shell structures using generalized conforming flat shell elements: For space shell structures, Commun Numer Methods Eng **14**(10) 941-957 (Oct 1998), 4A663
Iterative analytical solution of nonlinear analysis of shallow spherical shell with computer algebra systems - Maplev, Comput Methods Appl Mech Eng **163**(1-4) 383-394 (Sep 1998), 4A664
Large deformation analysis of contact in degenerate shell elements, Int J Numer Methods Eng **43**(6) 1127-1141 (Nov 1998), 4A665
Analysis for the plate with the theory of different extension-compression elastic modulis (Chinese), Chinese J Comput Mech **15**(4) 448-455 (Nov 1998), 5T19
Analysis of membrane locking in hp FEM for a cylindrical shell, Z Angew Math Mech **78**(10) 663-686 (1998), 5A20
Adaptive mesh-updating methods for nonlinear FE analysis of shells, Int J Numer Methods Eng **43**(8) 1523-1544 (Dec 1998), 5A556
Physically nonlinear problems of the theory of orthotropic composite shells with a cultivilinear hole (Russian), Prikl Mekh (Appl Mech) **34**(9) 28-32 (1998), 6A670
Mathematical modeling of dynamic behavior of the structure-inhomogeneous cases of the blasting chamber (Russian), Prikl Mekh (Appl Mech) **34**(7) 11-19 (1998), 6A675
Computer program for the elastostatics of a toroidal shell using the differential quadrature method, Int J Pressure Vessels Piping **75**(13) 919-929 (Nov 1998), 6A679
Finite element computations for the Reissner-Mindlin plate model, Commun Numer Methods Eng **14**(12) 1119-1131 (Dec 1998), 6A680
Improving an accurate thin plate element, Comput Methods Appl Mech Eng **166**(3-4) 341-348 (Nov 1998), 6A681
Mixed-interpolated elements for thin shells, Commun Numer Methods Eng **14**(12) 1155-1170 (Dec 1998), 6A682
Adaptive analysis of yield line patterns in plates with the arbitrary Lagrangian-Eulerian method, Comput Struct **70**(3) 257-271 (Feb 1999), 7A586
Generation of exact stiffness matrix for a conical shell element, Comput Struct **70**(4) 425-435 (Feb 1999), 7A587
Superconvergent patch recovery for plate problems using statically admissible stress resultant fields, Int J Numer Methods Eng **44**(5) 697-727 (Feb 1999), 7A588
Response of composite shells with cutouts to internal pressure and compression loads, AIAA J **37**(2) 232-237 (Feb 1999), 8A635
Boundary element-linear complementary equation solution to polygonial unilaterally simply supported plates, Eng Anal Boundary Elements **23**(4) 297-305 (Apr 1999), 8A644
Layer-wise triangle for analysis of laminated composite plates and shells, Comput Struct **70**(6) 635-646 (Mar 1999), 8A645
Mixed-enhanced FE for the analysis of laminated composite plates, Int J Numer Methods Eng **44**(10) 1481-1504 (Apr 1999), 8A646
Stabilized FE formulations for shells in a bending dominated state, SIAM J Numer Anal **36**(1) 32-73 (Jan 1999), 8A647
Method of solving nonstationary 3D problems of hydroelasticity with allowance for fluid failure, Int J Impact Eng **22**(4) 469-483 (Apr 1999), 9A302
Analytical solutions of openings formed by intersection of a cylindrical shell and an oblique nozzle under internal pressure, J Pressure Vessel Tech **121**(2) 170-175 (May 1999), 9A703
Bending of anisotropic plates by charge simulation method, Adv Eng Software **30**(5) 369-373 (May 1999), 9A704
Continuum based 3D shell element for laminated structures, Comput Struct **71**(1) 43-62 (Apr 1999), 9A705
Elastic bending analysis of irregular-shaped plates, Struct Eng and Mech **7**(3) 289-302 (Mar 1999), 9A706
Updated Lagrangian polar decomposition method in nonlinear elasticity and its shell element implementation, Commun Numer Methods Eng **15**(3) 167-181 (Mar 1999), 9A707
Damage tolerance of large shell structures, J Pressure Vessel Tech **121**(2) 188-195 (May 1999), 9A921
Impact loading of plates: validation of numerical simulations by testing, Int J Offshore Polar Eng **9**(1) 10-15 (Mar 1999), 10A277
Dynamic behavior of an axially moving thin orthotropic plate, J Theor Appl Mech **37**(1) 109-128 (1999), 10A700
Dynamics of substructured shells, J Theor Appl Mech **37**(2) 255-265 (1999), 10T701
Observed FE capabilities and limitations from multi-team simulations of three concrete shell structures, Comput Struct **71**(3) 277-291 (May 1999), 10A702
Strip element method for bending analysis of orthotropic plates, JSME Int J Ser A **40**(4) 398-406 (Oct 1997), 10A703
Wear formulation of mixed state equation and boundary value problem of laminated cylindrical shell, Appl Math Mech **20**(2) 128-134 (Feb 1999), 10A704
Decomposition properties of the compressed-map principle in the theory of thin elastic shells, Composite Mech Des **3**(2) 1-16 (1997), 11A585
Improved 4-node quadrilateral plate bending element of the Reissner-Mindlin type, Comput Mech **23**(3) 240-249 (Apr 1999), 11A586
New plate FE using integral representation interpolation, Eng Anal Boundary Elements **23**(7) 549-554 (Jul 1999), 11A587
Pseudo-layered, elastic-plastic, flat-shell FE, Comput Methods Appl Mech Eng **174**(1-2) 211-218 (May 1999), 11A588
Quadratic assumed natural strain curved triangular shell element, Comput Methods Appl Mech Eng **174**(1-2) 57-71 (May 1999), 11A589
Stiffened plate element based on Kirchoff thin plate theory, Marine Tech Trans **9** 199-218 (1998), 12A49
Application of the generalized conforming flat shell element to geometrical nonlinear analysis for composite stiffened shell structures, Commun Numer Methods Eng **15**(6) 399-412 (Jun 1999), 12A663

Computing finite rotations of shells by an asymptotic-numerical method, Comput Methods Appl Mech Eng **175**(1-2) 71-85 (Jun 1999), 12A664
New BE formulation for shear deformable shell analysis, Int J Numer Methods Eng **45**(9) 1257-1275 (Jul 1999), 12A665
Performance of the anisotropic Morley shell element in dynamic large deformation analysis, Commun Numer Methods Eng **15**(6) 445-455 (Jun 1999), 12A666
Two-node curved axisymmetric shell element based on coupled displacement field, Int J Numer Methods Eng **45**(7) 921-935 (Jul 1999), 12A667
Using degenerated solid shell elements in adaptive refinement analysis, Int J Numer Methods Eng **45**(6) 627-659 (Jun 1999), 12A668

260Z. Experimental techniques

Experimental investigation of symmetrical and asymmetrical supercritical equilibirum configurations of a spherical shell under external pressure (Russian), Prikl Mekh (Appl Mech) **33**(7) 31-35 (1997), 2T716
Experimental Mechanics: Advances in Design, Testing and Analysis, Volumes 1 and 2 (Balkema, Rotterdam, Netherlands, 1998) 3N18
Experimental analysis of arcylic models, Strain **34**(3) 95-98 (Aug 1998), 3A634
Experimental quasi-static axial crushing of top-hat and double-hat thin-walled sections, Int J Mech Sci **41**(2) 179-208 (Feb 1999), 4A545
Axial compression of metallic spherical shells between rigid plates, Thin-Walled Struct **34**(1) 21-41 (May 1999), 11A576

262. STRUCTURAL STABILITY (BUCKLING, POSTBUCKLING)

262A. General theory

Configurational forces and a constitutive theory for crack propagation that allows for kinking and curving, J Mech Phys Solids **46**(8) 1343-1378 (Aug 1998), 1A8
One decision method for the problem of 3D stability of laminar composites, Prikl Mekh (Appl Mech) **34**(3) 45-55 (1998), 1A601
Analysis of cross and vertical buckling in sheet metal rolling, Int J Mech Sci **40**(12) 1235-1246 (Dec 1998), 1A703
Dynamic stability analysis of a 3-bar linkage (German), Z Angew Math Mech **78**(7) 483-493 (1998), 1A704
Surface instability of the elasto-plastic half-space under combined loading (Russian), Prikl Mekh (Appl Mech) **33**(7) 10-15 (1997), 2A717
Computational prediction of instability propagation in glassy polymers, Arch Comput Methods Eng **5**(2) 167-198 (1998), 2A729
Joint influence of temperatures and surface compressing loads on stability of multilayer elastic-coating at small subcritical deformations (Russian), Prikl Mekh (Appl Mech) **34**(8) 32-39 (1998), 6A683
Recent Advances in Solids and Structures - 1998 (ASME, New York, 1998) 7N22
Growth simulation of circular buckling-driven delamination, Int J Solids Struct **36**(12) 1799-1821 (Apr 1999), 7A589
Stability of strain-rate dependent solids - I: Structural examples, J Mech Phys Solids **47**(8) 1737-1779 (Aug 1999), 11A590

262B. Nonlinear and finite deformation theory

Nonlinear dynamic buckling of symmetrically laminated cylindrically orthotropic shallow spherical shells, Arch Appl Mech **68**(6) 375-384 (Jul 1998), 1A719
Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part I: Material considerations, Composite Struct **42**(1) 33-41 (May 1998), 3A518
Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part II: Structural analysis, Composite Struct **42**(1) 43-51 (May 1998), 3A519
Finite element analysis model for the behavior of cold-formed steel members, Thin-Walled Struct **31**(4) 305-324 (Aug 1998), 5A21
Degradation and collapse of square tubes under cyclic bending, Thin-Walled Struct **31**(4) 325-341 (Aug 1998), 5A456
Inelastic stability of conical tanks, Thin-Walled Struct **31**(4) 343-359 (Aug 1998), 5A557
Elastica problem: Instabilities of an elastic arch, Physica D **124**(1-3) 285-295 (Dec 1998), 6A689
Nonlinear bending and instability of imperfect cylindrical tubes, Int J Pressure Vessels Piping **76**(1) 43-47 (Jan 1999), 7A590
Calculation of the deep bending collapse response for complex thin-walled columns - I: Pre-collapse and collapse phases, Thin-Walled Struct **33**(3) 155-176 (Mar 1999), 8A543
Calculation of the deep bending collapse response for complex thin-walled columns - II: Post-collapse phase, Thin-Walled Struct **33**(3) 177-210 (Mar 1999), 8A544
Buckling of stiffened steel plates - A parametric study, J Construct Steel Res **50**(2) 151-175 (May 1999), 8A666
Large deflection of superconducting cable, Int J Non-Linear Mech **34**(5) 869-880 (Sep 1999), 10A664
Bracing requirements of inelastic columns, J Construct Steel Res **51**(1) 1-19 (Jul 1999), 10A709
Initiation and propagation of buckles in a beam on a nonlinear foundation, J Appl Mech **66**(2) 418-426 (Jun 1999), 10A712
Lateral buckling strengths of cold-formed Z-sections beams, Thin-Walled Struct **34**(1) 65-93 (May 1999), 11A591
Plastic buckling of complete toroidal shells of elliptical cross-section subjected to internal pressure, Thin-Walled Struct **34**(2) 135-146 (Jun 1999), 12A676

262C. Postbuckling theory

Computational modeling of cold-formed steel: Characterizing geometric imperfections and residual stresses, J Construct Steel Res **47**(3) 193-210 (Sep 1998), 1A705
Local and post-local buckling of concrete filled steel welded box columns, J Construct Steel Res **47**(1-2) 47-72 (Jul 1998), 1A706
Postbuckling of imperfect stiffened cylindrical shells under combined external pressure and heating, Appl Math Mech **19**(5) 411-423 (May 1998), 1A707
Buckling and postbuckling behavior of curved composite panels due to thermal and mechanical loading, J Reinforced Plastics Composites **17**(14) 1292-1306 (1998), 2A718
Global-local postbuckling failure analysis of composite stringer-skin panels, AIAA J **36**(9) 1699-1705 (Sep 1998), 2A725
Experimental and FE analyses on the post-buckling behavior of repaired composite panels, Composites Part A Appl Sci and Manuf **29A**(11) 1463-1471 (1998), 3A635
Postbuckling and failure of stiffened composite panels under axial compression, Composite Struct **42**(1) 13-21 (May 1998), 3A636
Rib separation in postbuckling stiffened shear panels, Composite Struct **41**(3-4) 339-352 (Mar-Apr 1998), 3A637
Stability and postbuckling of a platform with flexible legs resting on a slippery surface, Mech Struct Machines **26**(3) 277-286 (1998), 3A921
New FE model used in post-buckling analysis for delaminated damage of laminated plate-shell (Chinese), J Dalian Univ Tech **38**(5) 511-515 (Sep 1998), 4A26
Axisymmetric and asymmetric postbuckling response and energy release rate of delaminated circular film, Int J Mech Sci **41**(1) 43-58 (Jan 1999), 4A666
Post-buckling analysis of a strut with general initial imperfection, Int J Numer Methods Eng **43**(6) 1017-1028 (Nov 1998), 4A667
Postbuckling of composite laminated plates under biaxial compression combined with lateral pressure and resting on elastic foundations, J Strain Anal Eng Des **33**(4) 253-261 (Jul 1998), 4A668
Thermal postbuckling of imperfect Reissner-Mindlin plates with two free side edges and resting on elastic foundations, Struct Eng and Mech **6**(6) 643-658 (Sep 1998), 4A669
Flexural-torsional postbuckling analysis of centrally compressed bars with open thin-walled cross-section, Eng Struct **21**(1) 55-61 (Jan 1999), 4A670
Metal shell structures, Thin-Walled Struct **31**(1-3) 3-270 (May-Jul 1998), 5A547
Asymptotic formula for the flexible bar, Mech Machine Theory **34**(4) 645-655 (May 1999), 5A558
Post-failure analysis of composite cylindrical panels under compression, J Reinforced Plastics Composites **17**(18) 1665-1681 (1998), 5A559
Postbuckling analysis of composite panels with imperfection damage, Comput Mech **22**(5) 375-387 (Dec 1998), 6A684
Postbuckling response and failure of symmetric laminates under in-plane shear, Composites Sci Tech **58**(12) 1949-1960 (Dec 1998), 6A685
Behavior of girder webs subjected to patch loading, J Construct Steel Res **50**(1) 49-69 (Apr 1999), 7A591
Buckling and postbuckling of laminated shear-deformable plates (Chinese), J Shanghai Jiaotong Univ **32**(11) 84-89 (Nov 1998), 7A598
Postbuckling of composite laminated thick plates (Chinese), J Shanghai Jiaotong Univ **32**(11) 78-83 (Nov 1998), 7A600
Buckling and postbuckling of symmetrically laminated cross-ply shear-deformable cylindrical shells under external pressure (Chinese), J Shanghai Jiaotong Univ **32**(11) 71-77 (Nov 1998), 7A601
Spatial complexity of localized buckling on rods with noncircular cross section, SIAM J Appl Math **59**(1) 198-221 (Sep 1998), 8A648
Buckling and postbuckling of antisymmetrically laminated angle-ply shear-deformable plates in biaxial compression (Chinese), J Shanghai Jiaotong Univ **32**(12) 42-49 (Dec 1998), 8A654
Buckling and postbuckling behavior of composite cross-ply laminates with multiple delaminations, Composite Struct **43**(4) 257-274 (Dec 1998), 8A664
Buckling mode interaction in three-equal-span braced columns, Chaos Solitons Fractals **10**(7) 1171-1178 (Jul 1999), 10A705
Postbuckling of Reissner-Mindlin plates under biaxial compression and lateral pressure and resting on elastic foundations, Comput Methods Appl Mech Eng **173**(1-2) 135-146 (Apr 1999), 10A706
Postbuckling response and strength of laminates under combined in-plane loads, Composites Sci Tech **59**(5) 727-736 (Apr 1999), 10A707
Elastica solution for the hygrothermal buckling of a beam, Int J Non-Linear Mech **34**(5) 935-947 (Sep 1999), 10A711
Elastic buckling and postbuckling behavior of widely-stiffened conical shells under axial compression, Eng Struct **21**(9) 845-855 (Sep 1999), 10A731
Stress analysis of a postbuckled laminated composite plate, Struct Eng and Mech **7**(4) 377-386 (Apr 1999), 11A39
Postbuckling of delaminated composites under compressive loads using global-local approach, AIAA J **37**(6) 774-778 (Jun 1999), 11T592
Transverse-stiffener requirements for the postbuckling behavior of a plate in shear, Thin-Walled Struct **34**(1) 43-63 (May 1999), 11A602
Spline FMS postbuckling analysis of shear-deformable rectangular laminates, Thin-Walled Struct **34**(2) 163-178 (Jun 1999), 12A669

262D. Imperfection sensitivity

Computational modeling of cold-formed steel: Characterizing geometric imperfections and residual stresses, J Construct Steel Res **47**(3) 193-210 (Sep 1998), 1A705
Choice of initial geometric imperfections in externally pressurized shells, J Pressure Vessel Tech **121**(1) 71-76 (Feb 1999), 5A560
Steel girders subjected to concentrated loading - Validation of numerical simulations, J Construct Steel Res **50**(2) 199-216 (May 1999), 8A23
Measurement and assessment of geometric imperfections in thin-walled panels, Thin-Walled Struct **33**(2) 103-126 (Feb 1999), 8A649
Sensitivity analysis of a class of nearly double bucklings, Int J Eng Sci **37**(7) 831-846 (May 1999), 10A708
Contributions to understanding the behavior of axially compressed cylinders, J Appl Mech **66**(2) 299-309 (Jun 1999), 10A723

262E. Columns and beams

Local and post-local buckling of concrete filled steel welded box columns, J Construct Steel Res **47**(1-2) 47-72 (Jul 1998), 1A706
Approximate analytical solution for the buckling loads of a thin-walled box column with variable cross-section, Appl Math Mech **19**(5) 445-456 (May 1998), 1A708
Behavior of thin-walled steel box sections with or without internal restraint, J Construct Steel Res **47**(1-2) 73-91 (Jul 1998), 1A709
Distortional buckling of elastically restrained cantilevers, J Construct Steel Res **47**(1-2) 3-18 (Jul 1998), 1A710
Dynamic stability of Timoshenko columns subjected to subtangential forces, Comput Struct **68**(5) 499-512 (Sep 1998), 1A711
Effective length factor of columns in flexibly jointed and braced frames, J Construct Steel Res **47**(1-2) 93-118 (Jul 1998), 1A712
Mathematical model and analytical solution for buckling of inclined beam-columns, Appl Math Model **22**(6) 405-421 (Jun 1998), 1A713
Secondary buckling of an elastic column with a central elastic support, Mech Res Commun **25**(4) 479-486 (Jul-Aug 1998), 1T714
Buckling of polysilicon microbeams during sacrificial layer removal, J Micromech Microeng **8**(3) 243-249 (Sep 1998), 3T438
Interesting behavior patterns of poroelastic beams and columns, Int J Solids Struct **35**(34-35) 4931-4943 (Dec 1998), 3A595
Beck's column with shear and compressibility, Struct Eng and Mech **6**(7) 747-756 (Oct 1998), 3A638
Nonlinear behavior and design of steel frames and members, J Construct Steel Res **48**(2-3) 63-209 (Nov-Dec 1998), 3A639
Stability study of nonlinear bendng response analysis on a column member with partial softening of M-ϕ curve (Japanese), Proc JSCE **598**(I-44) 211-226 (Jul 1998), 3T640
Flexural-torsional postbuckling analysis of centrally compressed bars with open thin-walled cross-section, Eng Struct **21**(1) 55-61 (Jan 1999), 4A670
Tension flange instability of I-beams, J Construct Steel Res **49**(1) 69-81 (Jan 1999), 4A671
Tests on slender composite columns, J Construct Steel Res **49**(1) 25-41 (Jan 1999), 4A672
Experimental validation of reduction methods for nonlinear vibrations of distributed-parameter systems: Analysis of a buckled beam, Nonlinear Dyn **17**(2) 95-117 (Oct 1998), 5A561
Analytical study on interaction curve for ultimate strength of thin-walled box stub columns (Japanese), Proc JSCE **605**(I-45) 265-276 (Oct 1998), 6A686
Experimental study on buckling and ultimate strength of thin-walled box stub columns (Japanese), Proc JSCE **605**(I-45) 277-287 (Oct 1998), 6A687
Tallest column: Optimality revisited, J Comput Appl Math **101**(1-2) 27-37 (Jan 1999), 6A688
Deflections and buckling of a bent elastica in contact with a flat surface, Int J Solids Struct **36**(8) 1209-1229 (Mar 1999), 7A546
Effect of an ultralight metal filler on the bending collapse behavior of thin-walled prismatic columns, Int J Mech Sci **41**(8) 995-1019 (Aug 1999), 7A554
Behavior of girder webs subjected to patch loading, J Construct Steel Res **50**(1) 49-69 (Apr 1999), 7A591
Buckling of elastically supported and braced columns with arbitrary boundary conditions, J Eng Appl Sci **45**(5) 693-708 (Oct 1998), 7A592
Out-of-plane distortional buckling of T-section ringbeams clamped at inner edge, Eng Struct **21**(7) 615-628 (Jul 1999), 7A593
Torsional buckling of the Hubble Space Telescope solar arrays, Int J Space Struct **13**(2) 65-74 (1998), 7A594
Behavior of cold-formed singly symmetric columns, Thin-Walled Struct **33**(2) 83-102 (Feb 1999), 8A650
Bracing of thin walled steel box columns during pumping of wet concrete in tall buildings, Thin-Walled Struct **33**(2) 127-154 (Feb 1999), 8A651
Elastic distortional buckling of tee-section cantilevers, Thin-Walled Struct **33**(1) 3-17 (Jan 1999), 8A652
Optimization and stability of columns on example of conservative and nonconservative systems, Machine Dyn Prob **20** 35-47 (1998), 9T708
Homoclinic and heteroclinic bifurcations in the nonlinear dynamics of a beam resting on an elastic substrate, Int J Non-Linear Mech **34**(4) 615-632 (Jul 1999), 9A720
Bracing requirements of inelastic columns, J Construct Steel Res **51**(1) 1-19 (Jul 1999), 10A709
Effect of residual stresses on buckling and initial post-buckling behavior of thin-walled columns, Arch Civil Eng **44**(3) 287-297 (1998), 10A710
Elastica solution for the hygrothermal buckling of a beam, Int J Non-Linear Mech **34**(5) 935-947 (Sep 1999), 10A711
Initiation and propagation of buckles in a beam on a nonlinear foundation, J Appl Mech **66**(2) 418-426 (Jun 1999), 10A712
Instability regions of a prestressed compound column subjected to a follower force, J Theor Appl Mech **37**(1) 147-162 (1999), 10A713
Nonlinear normal modes of buckled beams: Three-to-one and one-to-one internal resonances, Nonlinear Dyn **18**(3) 253-273 (Mar 1999), 10T714
Stability of viscoelastic beams with variable cross-section, Eur J Mech A **18**(2) 253-269 (Mar-Apr 1999), 10A738
Lateral buckling strengths of cold-formed Z-sections beams, Thin-Walled Struct **34**(1) 65-93 (May 1999), 11A591
Lateral buckling of bundled pipe systems, Marine Struct **12**(1) 21-40 (Jan 1999), 11A593
Newmark-based method for the stability of columns, Comput Struct **71**(6) 689-700 (Jun 1999), 11A594
Rigorous theory for determining critical loads of columns with distributed axial loads, J Struct Eng (India) **25**(2) 149-152 (Jul 1998), 11T595
Lateral stability of long precast concrete beams, Proc Inst Civil Eng Struct Build **134**(2) 169-180 (May 1999), 11A923
Stability design of long precast concrete beams, Proc Inst Civil Eng Struct Build **134**(2) 159-168 (May 1999), 11A927
Local and distortional buckling of thin-walled short columns, Thin-Walled Struct **34**(2) 115-134 (Jun 1999), 12A670
New closed-form solutions for buckling of a variable stiffness column by mathematica, J Sound Vib **224**(1) 172-182 (Jul 1999), 12T671
Postbuckling behavior of the discrete three-column system, Stud Geotech Mech **20**(3-4) 53-72 (1998), 12T672

262F. Rings and arches

Stability of arches with suspenders and ties (Polish), Inzynieria Budownictwo **54**(7) 363-365 (1998), 2A719
Elastica problem: Instabilities of an elastic arch, Physica D **124**(1-3) 285-295 (Dec 1998), 6A689
Bending and buckling of superconducting partial toroidal field coils, Int J Solids Struct **36**(14) 2127-2141 (May 1999), 7A595
Buckling of an elastic ring forced by a periodic array of compressive loads, J Appl Mech **66**(2) 361-367 (Jun 1999), 10A715
New buckling approximations for T-section ringbeams simply-supported at inner edge, Eng Struct **21**(10) 889-897 (Oct 1999), 11A596

262G. Framed structures

Effective length factor of columns in flexibly jointed and braced frames, J Construct Steel Res **47**(1-2) 93-118 (Jul 1998), 1A712
Theoretical base and designing practice of steel structures (Polish), Inzynieria Budownictwo **54**(3) 151-155 (1998), 2A720
Limit analysis for no-tension and frictional 3D discrete systems, Mech Struct Machines **26**(3) 287-304 (1998), 3A917
Bifurcation and stability of a three-hinged rod under a conservative load, Int J Numer Methods Eng **44**(5) 657-696 (Feb 1999), 7A596
Physical instability and geometric effects in frames, Eng Struct **21**(7) 557-567 (Jul 1999), 7A861
Optimal topology and configuration design of trusses with stress and buckling constraints, Struct Optim **17**(1) 25-35 (Feb 1999), 8A835
Experimental investigation on bolted moment connections among cold formed steel members, Eng Struct **21**(10) 898-911 (Oct 1999), 11A597
Full-height buckling of frameworks with cross-bracing, Proc Inst Civil Eng Struct Build **134**(2) 181-191 (May 1999), 11A598
Local stability of trusses in the context of topology optimization - Part I: Exact modeling, Struct Optim **17**(4) 235-246 (Jun 1999), 12A889
Local stability of trusses in the context of topology optimization - Part II: A numerical approach, Struct Optim **17**(4) 247-258 (Jun 1999), 12A890

262H. Plates

Behavior of thin-walled steel box sections with or without internal restraint, J Construct Steel Res **47**(1-2) 73-91 (Jul 1998), 1A709
Aircraft wing panel buckling analysis: Efficiency by approximations, Comput Struct **68**(6) 665-676 (Sep 1998), 1A715
Stability and tensile failure of bilayered plates with cracks, Prikl Mekh (Appl Mech) **34**(3) 91-96 (1998), 1A716
International Conference on thin-walled structures: Cold-formed steel and aluminium structures, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **29**(1-4) 3-287 (Sep-Dec 1997), 1T998
Stability of elastic slightly wrinkled plates, Acta Mech **130**(1-2) 111-119 (1998), 2A721
Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part I: Material considerations, Composite Struct **42**(1) 33-41 (May 1998), 3A518
Postbuckling of nonlinear viscoelastic imperfect laminated plates - Part II: Structural analysis, Composite Struct **42**(1) 43-51 (May 1998), 3A519
Effect of multiple delamination on postbuckling behavior of laminated composite plates, Composite Struct **42**(1) 1-12 (May 1998), 3A769
Buckling of arbitrary quadrilateral plates with intermediate supports using the Galerkin method, Comput Methods Appl Mech Eng **164**(3-4) 297-306 (Oct 1998), 4A673
Prediction of coiling conditions of plate in coilbox by controlled FEM simulation, Int J Machine Tools Manuf **39**(3) 403-413 (Mar 1999), 4A674
Nonlinear stability analysis of an incompressible elastic plate subjected to an all-round tension, J Mech Phys Solids **46**(11) 2261-2282 (Nov 1998), 5A562
Stability of sandwich curved plate subjected to uniform axial compression (Chinese), J Beijing IT **18**(4) 397-400 (Aug 1998), 5A563
Predicting the buckling load of anisotropic sandwich panels: An approach including shear deformation of the faces, Composite Struct **42**(3) 245-255 (Jul 1998), 5A566
Behavior of compression-loaded composite panels with stringer terminations and impact damage, J Aircraft **35**(6) 942-948 (Nov-Dec 1998), 6A690
Buckling of thin sheet of delaminated plates with repair fasteners, AIAA J **36**(12) 2236-2241 (Dec 1998), 6A691
Effect of plastic properties of material on stability and fracture of the plate with the edge crack (Russian), Prikl Mekh (Appl Mech) **34**(7) 73-77 (1998), 6A692
Elastic buckling of unilaterally constrained rectangular plates in pure shear, Eng Struct **21**(5) 443-453 (May 1999), 6A693
Evaluation of buckling loading of rectangular bending plate by using an iterative approach, Comput Methods Appl Mech Eng **167**(1-2) 91-99 (Dec 1998), 6A694
Parametric study on the structural behavior of steel plates in concrete-filled fabricated thin-walled box columns, Adv in Struct Eng **2**(1) 57-71 (Nov 1998), 6A695
Buckling analysis of elastic plates by BEM, Eng Anal Boundary Elements **23**(2) 131-137 (Feb 1999), 7A597
Buckling and postbuckling of laminated shear-deformable plates (Chinese), J Shanghai Jiaotong Univ **32**(11) 84-89 (Nov 1998), 7A598
Differential quadrature procedure for 3D buckling analysis of rectangular plates, Int J Solids Struct **36**(8) 1149-1168 (Mar 1999), 7A599
Postbuckling of composite laminated thick plates (Chinese), J Shanghai Jiaotong Univ **32**(11) 78-83 (Nov 1998), 7A600
Experimental, numerical and analytical results for bending and buckling of rectangular orthotropic plates, Composite Struct **43**(4) 289-299 (Dec 1998), 8A634
Measurement and assessment of geometric imperfections in thin-walled panels, Thin-Walled Struct **33**(2) 103-126 (Feb 1999), 8A649
Application of differential quadrature method to the delamination buckling of composite plates, Comput Struct **70**(6) 615-623 (Mar 1999), 8A653
Buckling and postbuckling of antisymmetrically laminated angle-ply shear-deformable plates in biaxial compression (Chinese), J Shanghai Jiaotong Univ **32**(12) 42-49 (Dec 1998), 8A654
Effect of aspect ratio on buckling of composite plates, Composites Sci Tech **59**(3) 439-445 (Feb-Mar 1999), 8A655
Buckling and vibrations of unsymmetric laminates resting on elastic foundations under in-plane and shear forces, Composite Struct **44**(1) 31-41 (Jan 1999), 8A665
Method for modeling the local and global buckling of delaminated composite plates, Composite Struct **44**(1) 43-53 (Jan 1999), 8A667
Dynamic cycle collapse of circular plates, J Appl Mech **66**(1) 250-253 (Mar 1999), 8A669
Buckling optimization of unsymmetrically laminated plates under transverse loads, Struct Eng and Mech **7**(1) 19-33 (Jan 1999), 8A829
Buckling and free vibration of non-homogeneous composite cross-ply laminated plates with various plate theories, Composite Struct **44**(4) 279-287 (Apr 1999), 9A709
Influence of compression-bending coupling on the stability behavior of anisotropic laminated panels, Appl Math Mech **20**(1) 18-26 (Jan 1999), 9A710
Local buckling behavior of steel plate elements supported by a plastic foam material, Struct Eng and Mech 7(5) 433-445 (May 1999), 9A711
Behavior of rectangular thin plates under plane loaded compression (Chinese), J Huazhong Univ Sci Tech **27**(2) 46-48 (Feb 1999), 10A716
Optimal buckling loads of nonuniform composite plates with thermal residual stresses, J Appl Mech **66**(2) 388-395 (Jun 1999), 10A717
Optimal design of thick laminated composite plates for maximum thermal buckling load, J Thermal Stresses **22**(3) 259-273 (Apr 1999), 10A718
Optimal stabilization of plate buckling, Smart Mat Struct **8**(2) 204-211 (Apr 1999), 10A719
Design formula for axially compressed perforated plates, Thin-Walled Struct **34**(1) 1-20 (May 1999), 11A920
Compressive buckling of laminates with an embedded delamination, Composites Sci Tech **59**(8) 1247-1260 (Jun 1999), 12A673
Influence of bend-twist coupling on the shear buckling response of thin laminated composite plates, Thin-Walled Struct **34**(2) 97-114 (Jun 1999), 12A674
Why local damage increases the buckling load of circular plates, Thin-Walled Struct **34**(2) 147-161 (Jun 1999), 12A675

262I. Shells

New approach to instability testing of shells, Int J Pressure Vessels Piping **75**(1) 75-80 (Jan 1998), 1A717
Stresses and stability for the cone-cylinder shells with toroidal transition, Int J Pressure Vessels Piping **75**(1) 49-56 (Jan 1998), 1A718
Nonlinear dynamic buckling of symmetrically laminated cylindrically orthotropic shallow spherical shells, Arch Appl Mech **68**(6) 375-384 (Jul 1998), 1A719
International Conference on thin-walled structures: Cold-formed steel and aluminium structures, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **29**(1-4) 3-287 (Sep-Dec 1997), 1T998
Dynamic instability analysis of a laminated composite circular cylindrical shell, Comput Struct **69**(2) 181-189 (Oct 1998), 2A722
Empirical formula for stability analysis of shells (Russian), Prikl Mekh (Appl Mech) **33**(7) 25-30 (1997), 2A723
Development of proposed European design rules for buckling of axially compressed cylinders, Adv in Struct Eng **1**(4) 273-286 (Jul 1998), 2A968
Buckling of the multi-vaulted "Aster" shell under axial compression alone or combined with an external pressure, Struct Eng and Mech **6**(7) 827-839 (Oct 1998), 3A641
Optimal design of general stiffened composite circular cylinders for global buckling with strength constraints, Composite Struct **41**(3-4) 243-252 (Mar-Apr 1998), 3A642
Stability analysis of shells of revolution on nonlinear elastic foundations, Comput Struct **69**(4) 499-511 (Nov 1998), 3A643
Layerwise theory for dynamic buckling and postbuckling of laminated composite cylindrical shells, AIAA J **36**(10) 1874-1882 (Oct 1998), 3A645
Design of shells and tanks in the aerospace industry: Some practical aspects, Progress Struct Eng Mat **1**(4) 404-414 (Jul 1998), 4A654
Aspects of composite circular sewer linings under installation conditions, Eng Struct **21**(1) 5-15 (Jan 1999), 4A675
Bifurcation analysis of elastic-plastic cylindrical shells, Int J Non-Linear Mech **34**(2) 299-311 (Mar 1999), 4A676
Pressure vessel components: Some recent developments in strength and buckling, Progress Struct Eng Mat **1**(4) 415-421 (Jul 1998), 4A677
Stability analysis of laminated-composite dome structure (Chinese), J Huazhong Univ Sci Tech **26**(S1) 37-40 (May 1998), 4A678
Stability and initial supercritical behavior of shells of composites: Survey (Russian), Prikl Mekh (Appl Mech) **34**(6) 3-38 (1998), 4A679
Degradation and collapse of square tubes under cyclic bending, Thin-Walled Struct **31**(4) 325-341 (Aug 1998), 5A456
Metal shell structures, Thin-Walled Struct **31**(1-3) 3-270 (May-Jul 1998), 5A547
Inelastic stability of conical tanks, Thin-Walled Struct **31**(4) 343-359 (Aug 1998), 5A557
Bifurcations of thick-walled hollow cylinders of geomaterials under axisymmetric compression, Int J Numer Anal Methods Geomech **22**(11) 903-919 (Nov 1998), 5A564
Elastic buckling of imperfect circular toroidal shells under external pressure, Proc Inst Mech Eng E **212**(E3) 197-209 (1998), 5A565
Analysis of plastic bifurcation from axisymmetric buckling mode to diamond buckling mode in moderately thick cylindrical shells (Japanese), Proc JSCE **605**(I-45) 105-115 (Oct 1998), 6A696
Estimation models and stability problems for shells from composition materials (Russian), Prikl Mekh (Appl Mech) **34**(10) 24-31 (1998), 6T697
Influence of localized imperfections on the buckling of cylindrical shells under axial compression, Int J Solids Struct **36**(3) 441-464 (Jan 1999), 6A698
Postbuckling performance of the TRIC natural mode triangular element for isotropic and laminated composite shells, Comput Methods Appl Mech Eng **166**(3-4) 211-231 (Nov 1998), 6A699
Thermal-elastic analysis on laser-induced reverse bulging and plugging in circular brass foil, Int J Solids Struct **36**(3) 363-389 (Jan 1999), 6A700
Thermomechanical postbuckling of composite laminated cylindrical shells with local geometric imperfections, Int J Solids Struct **36**(4) 597-617 (Feb 1999), 6A701
Dynamic stability of an elastic cylindrical shell being in external contact with an elastic isotropic medium with respect to nonstationary excitations, J Vib and Control **5**(1) 3-44 (Jan 1999), 6A704
Buckling and postbuckling of symmetrically laminated cross-ply shear-deformable cylindrical shells under external pressure (Chinese), J Shanghai Jiaotong Univ **32**(11) 71-77 (Nov 1998), 7A601
Confrontation of shell buckling research results with the collapse of a steel water tower, J Construct Steel Res **49**(3) 303-314 (Mar 1999), 7A602
Parametric instability of conical shells by the generalized differential quadrature method, Int J Numer Methods Eng **44**(6) 819-837 (Feb 1999), 7A603
Axially asymmetrical dynamic buckling of composite cylindrical shells (Chinese), J Shanghai Jiaotong Univ **32**(11) 62-65 (Nov 1998), 7A604
Buckling analysis for embedded steel penstocks under external pressure (Chinese), J Dalian Univ Tech **38**(6) 700-704 (Nov 1998), 8A656
Buckling analysis of anisotropic variable-curvature panels and shells, Composite Struct **43**(4) 321-329 (Dec 1998), 8A657
Buckling of thick orthotropic cylindrical shells under torsion, J Appl Mech **66**(1) 41-50 (Mar 1999), 8A658
Experimental buckling of thin composite cylinders in compression, AIAA J **37**(2) 276-278 (Feb 1999), 8T659
Nonlocal 2D analysis of instabilities in tubes under internal pressure, J Mech Phys Solids **47**(4) 953-969 (Apr 1999), 8A660
Plastic deformation and instability in thin-walled tubes under combined loading: A general theory - Part II, J Mech Phys Solids **47**(4) 921-933 (Apr 1999), 8A661
Postbuckling analysis and imperfection sensitivity of general shells by the FEM, Int J Solids Struct **36**(18) 2641-2681 (Jun 1999), 8A662
Mechanics of cylindrical shells with non-circular cross-section: A survey, Appl Mech Rev **52**(8) 237-274 (Aug 1999), 9A168
Effect of shear deformation and relaxation of support conditions on elastic buckling of pressurized expansion bellows, J Pressure Vessel Tech **121**(2) 127-132 (May 1999), 9A712
Experiment on elastically compressed frusta, Thin-Walled Struct **33**(4) 231-244 (Apr 1999), 9A713
Experimental response of glass-reinforced plastic cylinders under axial compression, Marine Struct **11**(9) 347-371 (Nov 1998), 9A714
Constructive analysis of buckling mode interactions with single Z_2-symmetry, Int J Non-Linear Mech **34**(4) 671-683 (Jul 1999), 9A724
Thin-Walled Cellular Structures: Methods for Their Analysis (Balkema, Rotterdam, Netherlands, 1999) 10R15
Assessment of shell theories for buckling of circular cylindrical laminated composite panels loaded in axial compression, Int J Solids Struct **36**(25) 3799-3820 (Sep 1999), 10A720
Buckle propagation and fracture in pipelines, Int J Offshore Polar Eng **9**(1) 30-38 (Mar 1999), 10A721
Buckling analysis of a laminated cylindrical shell under torsion subjected to mixed boundary conditions, Int J Solids Struct **36**(25) 3821-3835 (Sep 1999), 10A722
Contributions to understanding the behavior of axially compressed cylinders, J Appl Mech **66**(2) 299-309 (Jun 1999), 10A723
Dynamic stability of cylindrical panels with transverse shear effects, Int J Solids Struct **36**(23) 3483-3496 (Aug 1999), 10A724
Impact torsional buckling of plastic circular cylindrical shells: Experimental study, Int J Impact Eng **22**(5) 531-542 (May 1999), 10A725
Instabilities in torispheres and toroids under suddenly applied external pressure, Int J Impact Eng **22**(5) 511-530 (May 1999), 10A726
Problem on arbitrarily oriented crack in the buckled shell (Russian), Prikl Mekh (Appl Mech) **34**(12) 48-54 (1998), 10A727
Stability analysis of viscoelastic thin shallow hyperbolic paraboloid shells, Int J Solids Struct **36**(28) 4209-4223 (Oct 1999), 10A728
Stability of conical shells with small generatrix curvatures (Russian), Prikl Mekh (Appl Mech) **35**(2) 36-40 (1999), 10A729
Study on the ultimate bending behavior of prestressed-concrete bridges using external tendons (Japanese), Proc JSCE **613**(V-42) 147-164 (Feb 1999), 10A730
Dynamic buckling and post-buckling of imperfect orthotropic cylindrical shells under mechanical and thermal loads, based on 3D theory of elasticity, J Appl Mech **66**(2) 476-484 (Jun 1999), 10A733
Dynamic stability analysis of cross-ply laminated cylindrical shells using different thin shell theories, Acta Mech **134**(3-4) 147-167 (1999), 10A735
Plastic buckling of circular cylindrical shells under nonuniform axial loads, J Appl Mech **66**(2) 374-379 (Jun 1999), 10A739
Buckling and vibration analysis of composite sandwich plates with elastic rotational edge restraints, AIAA J **37**(5) 579-587 (May 1999), 11A206
Axial compression of metallic spherical shells between rigid plates, Thin-Walled Struct **34**(1) 21-41 (May 1999), 11A576
Instability of a bell constrained cylindrical tube under end thrust - Part 2: Examples, thin tube analysis, Math Mech Solids **4**(2) 227-250 (Jun 1999), 11A599
Numerical simulation of cylindrical laminated shells under impulsive lateral pressure, AIAA J **37**(5) 629-633 (May 1999), 11A600
Plastic buckling of complete toroidal shells of elliptical cross-section subjected to internal pressure, Thin-Walled Struct **34**(2) 135-146 (Jun 1999), 12A676
Stability problems of pressure vessel ellipsoidal heads, Arch Budowy Maszyn **46**(1) 43-55 (1999), 12A677

262J. Pipes and pressure vessels

Dome reversal of metal beverage containers, J Pressure Vessel Tech **120**(4) 456-461 (Nov 1998), 2A724
Studies on the seismic buckling design guideline of FBR main vessels - Effect of thermal loads on shear-bending buckling strength of main vessels, JSME Int J Ser A **41**(4) 554-561 (Oct 1998), 10A1581
Instability of a bell constrained cylindrical tube under end thrust - Part 2: Examples, thin tube analysis,

Math Mech Solids **4**(2) 227-250 (Jun 1999), 11A599

262K. Stiffened and anisotropic structures

Local buckling of fiber-reinforced polymeric structural members under linearly-varying edge loading - Part 1: Theoretical formulation, Composite Struct **41**(1) 79-86 (Jan 1998), 1A646
Local behavior of discretely stiffened composite plates and cylindrical shells, Composite Struct **41**(1) 13-26 (Jan 1998), 1A696
Nonlinear dynamic buckling of symmetrically laminated cylindrically orthotropic shallow spherical shells, Arch Appl Mech **68**(6) 375-384 (Jul 1998), 1A719
Global-local postbuckling failure analysis of composite stringer-skin panels, AIAA J **36**(9) 1699-1705 (Sep 1998), 2A725
Postbuckling and failure of stiffened composite panels under axial compression, Composite Struct **42**(1) 13-21 (May 1998), 3A636
Differential quadrature approach for delamination buckling analysis of composites with shear deformation, AIAA J **36**(10) 1869-1873 (Oct 1998), 3A644
Layerwise theory for dynamic buckling and postbuckling of laminated composite cylindrical shells, AIAA J **36**(10) 1874-1882 (Oct 1998), 3A645
Measurement and analysis of buckling and buckle propagation in compressed oxide layers on superalloy substrates, Acta Mat **46**(14) 4993-5005 (Sep 1998), 3A646
Kink-band propagation in fiber composites, J Mech Phys Solids **46**(9) 1637-1653 (Sep 1998), 4A587
Analytical method for the ultimate compressive strength and effective plating of stiffened panels, J Construct Steel Res **49**(1) 43-68 (Jan 1999), 4A653
Tests on slender composite columns, J Construct Steel Res **49**(1) 25-41 (Jan 1999), 4A672
Stability analysis of laminated-composite dome structure (Chinese), J Huazhong Univ Sci Tech **26**(S1) 37-40 (May 1998), 4A678
Analysis of flexural-torsional buckling of stiffeners of thin-wall structure in compression (Chinese), J Huazhong Univ Sci Tech **26**(7) 33-35 (Jul 1998), 4A680
Behavior of intact and damaged honeycombs: A FE study, Int J Mech Sci **41**(1) 85-105 (Jan 1999), 4A681
Simplified postbuckling analysis for axially compressed shells, J Spacecraft Rockets **35**(5) 724-726 (Sep-Oct 1998), 4T682
Optimization of symmetric laminates with internal line supports for maximum buckling load, Struct Eng and Mech **6**(6) 633-641 (Sep 1998), 4A882
Stability of sandwich curved plate subjected to uniform axial compression (Chinese), J Beijing IT **18**(4) 397-400 (Aug 1998), 5A563
Predicting the buckling load of anisotropic sandwich panels: An approach including shear deformation of the faces, Composite Struct **42**(3) 245-255 (Jul 1998), 5A566
Finite element simulation of the test procedure of stiffened panels, Marine Struct **11**(3) 75-99 (Apr 1998), 6A19
Local buckling of the steel skin in lightweight composites induced by creep and shrinkage, Adv in Struct Eng **2**(1) 25-33 (Nov 1998), 6A625
Numerical investigation of tripping, Marine Struct **11**(4-5) 159-183 (May-Jun 1998), 6A676
Significance of fiber microbuckling for the flexural strength of a composite, Composites Sci Tech **59**(3) 327-330 (Feb-Mar 1999), 8A591
Towards a numerical model of the compressive strength for long fiber composites, Eur J Mech A **18**(1) 69-92 (Jan-Feb 1999), 8A593
Spatial complexity of localized buckling on rods with noncircular cross section, SIAM J Appl Math **59**(1) 198-221 (Sep 1998), 8A648
Buckling and postbuckling of antisymmetrically laminated angle-ply shear-deformable plates in biaxial compression (Chinese), J Shanghai Jiaotong Univ **32**(12) 42-49 (Dec 1998), 8A654
Buckling analysis for embedded steel penstocks under external pressure (Chinese), J Dalian Univ Tech **38**(6) 700-704 (Nov 1998), 8A656
Buckling analysis of anisotropic variable-curvature panels and shells, Composite Struct **43**(4) 321-329 (Dec 1998), 8A657
Buckling of thick orthotropic cylindrical shells under torsion, J Appl Mech **66**(1) 41-50 (Mar 1999), 8A658
Buckling analysis of delaminated laminates with consideration of contact in buckling mode, Int J Numer Methods Eng **44**(10) 1457-1479 (Apr 1999), 8A663
Buckling and postbuckling behavior of composite cross-ply laminates with multiple delaminations, Composite Struct **43**(4) 257-274 (Dec 1998), 8A664
Buckling and vibrations of unsymmetric laminates resting on elastic foundations under in-plane and shear forces, Composite Struct **44**(1) 31-41 (Jan 1999), 8A665
Buckling of stiffened steel plates - A parametric study, J Construct Steel Res **50**(2) 151-175 (May 1999), 8A666
Method for modeling the local and global buckling of delaminated composite plates, Composite Struct **44**(1) 43-53 (Jan 1999), 8A667
Optimal design of laminates for maximum buckling resistance and minimum weight, J Composite Tech Res **21**(1) 25-32 (Jan 1999), 8A668
Buckling and free vibration of non-homogeneous composite cross-ply laminated plates with various plate theories, Composite Struct **44**(4) 279-287 (Apr 1999), 9A709
Local buckling behavior of steel plate elements supported by a plastic foam material, Struct Eng and Mech **7**(5) 433-445 (May 1999), 9A711
Experimental response of glass-reinforced plastic cylinders under axial compression, Marine Struct **11**(9) 347-371 (Nov 1998), 9A714
Axial buckling analysis of inner lining of sliding and compressible shaft lining (Chinese), J China Univ Mining Tech **28**(2) 149-151 (1999), 9A715
Buckling of vertically loaded fiber-reinforced polymer piles, J Reinforced Plastics Composites **18**(4) 290-318 (1999), 9A716
Convex-probabilistic models of uncertainties in geometric imperfections of stiffened composite panels, AIAA J **37**(4) 468-474 (Apr 1999), 9A717
Nonlinear dynamic stability of laminated beams subjected to pulsating thermal loads, AIAA J **37**(4) 521-524 (Apr 1999), 9T718
Thermal buckling analysis of thick anisotropic composite plates by finite strip method, Struct Eng and Mech **7**(5) 473-484 (May 1999), 9A719
Buckling of woven GFRP cylinders under concentric and eccentric compression, Composite Struct **45**(1) 13-27 (May 1999), 10A625
Elastic buckling and postbuckling behavior of widely-stiffened conical shells under axial compression, Eng Struct **21**(9) 845-855 (Sep 1999), 10A731
Influence of variable orthotropy upon the stability of thin-walled rectangular plates, J Theor Appl Mech **37**(1) 129-145 (1999), 10A732
Dynamic buckling and post-buckling of imperfect orthotropic cylindrical shells under mechanical and thermal loads, based on 3D theory of elasticity, J Appl Mech **66**(2) 476-484 (Jun 1999), 10A733
Stress analysis of a postbuckled laminated composite plate, Struct Eng and Mech **7**(4) 377-386 (Apr 1999), 11A39
Experimental investigation of delamination buckling and postbuckling of composite laminates, Composites Sci Tech **59**(6) 903-910 (May 1999), 11A601
Transverse-stiffener requirements for the postbuckling behavior of a plate in shear, Thin-Walled Struct **34**(1) 43-63 (May 1999), 11A602
Elastic buckling of ring-stiffened cone-cylinder intersections under internal pressure, Int J Mech Sci **41**(11) 1357-1383 (Nov 1999), 12A678

262L. Dynamic stability

Dynamic stability analysis of a 3-bar linkage (German), Z Angew Math Mech **78**(7) 483-493 (1998), 1A704
Nonlinear dynamic buckling of symmetrically laminated cylindrically orthotropic shallow spherical shells, Arch Appl Mech **68**(6) 375-384 (Jul 1998), 1A719
Parametric resonance of a rotating cylindrical shell subjected to periodic axial loads, J Sound Vib **214**(3) 513-529 (Jul 1998), 1A720
Dynamic behavior of two-link systems with rolling near the boundaries of the regions of oscillatory instability (Russian), Prikl Mekh (Appl Mech) **33**(5) 89-97 (1998), 2A726
Dynamic stability of elastic structures: A FE approach, Comput Struct **69**(1) 11-25 (Oct 1998), 2A727
Global analysis of discrete nonconservative nonlinear systems with dynamic follower parameters, Comput Struct **69**(1) 105-115 (Oct 1998), 2A728
Response of an elastic beam to a periodic excitation, Chaos Solitons Fractals **9**(8) 1391-1402 (Aug 1998), 4A683
Dynamic instability of a general column under a periodic load in the direction of the tangency coefficient at any axial position, J Sound Vib **217**(4) 665-689 (Nov 1998), 5A567
High-order theory for dynamic buckling and postbuckling analysis of laminated cylindrical shells, J Pressure Vessel Tech **121**(1) 94-102 (Feb 1999), 5A568
Direct computation of lower-bound dynamic buckling loads of imperfection-sensitive systems, AIAA J **36**(12) 2257-2261 (Dec 1998), 6A702
Dynamic buckling strength of honeycomb core of aluminum alloy, J Soc Mat Sci Japan **47**(11) 1119-1124 (Nov 1998), 6A703
Dynamic stability of an elastic cylindrical shell being in external contact with an elastic isotropic medium with respect to nonstationary excitations, J Vib and Control **5**(1) 3-44 (Jan 1999), 6A704
Model analysis for the elastic-plastic impact buckling of static preloading structures (Chinese), J Huazhong Univ Sci Tech **26**(10) 26-28 (Oct 1998), 6A705
Axially asymmetrical dynamic buckling of composite cylindrical shells (Chinese), J Shanghai Jiaotong Univ **32**(11) 62-65 (Nov 1998), 7A604
Explicit stability conditions for stochastic integrodifferential equations with non-selfadjoint operator coefficients, Stochastic Anal Appl **17**(1) 23-41 (1999), 7T605
Numerical analysis of dynamic stability of elastic truss structures, Int J Space Struct **13**(2) 75-81 (1998), 7A606
Dynamic instability of a turbine generator due to microslip, J Vib Acoust **121**(2) 162-168 (Apr 1999), 8A191
Dynamic cycle collapse of circular plates, J Appl Mech **66**(1) 250-253 (Mar 1999), 8A669
Geometric approach for establishing dynamic buckling loads of autonomous potential two-dof systems, J Appl Mech **66**(1) 55-61 (Mar 1999), 8A670
Supercritical speed stability of the trivial equilibrium of an axially-moving string on an elastic foundation, J Sound Vib **221**(2) 205-219 (Mar 1999), 9A144
Graphical technique for the flutter analysis of flexible bridge, Wind Struct **2**(1) 41-49 (Mar 1999), 9A296
Homoclinic and heteroclinic bifurcations in the nonlinear dynamics of a beam resting on an elastic substrate, Int J Non-Linear Mech **34**(4) 615-632 (Jul 1999), 9A720
Resonances of parametric vibration with forced vibration of the stator system of hydroelectric-generator stimulated by electromagnetism, Acta Mech Solida Sinica **12**(1) 63-75 (1999), 9A721
Conditions for the occurrence of limit cycles in autonomous potential damped systems, Int J Non-Linear Mech **34**(5) 949-966 (Sep 1999), 10A129
Dynamic buckling and post-buckling of imperfect orthotropic cylindrical shells under mechanical and thermal loads, based on 3D theory of elasticity, J Appl Mech **66**(2) 476-484 (Jun 1999), 10A733
Dynamic buckling of autonomous systems having potential energy universal unfoldings of cuspoid catastrophe, Nonlinear Dyn **18**(3) 235-252 (Mar 1999), 10T734
Dynamic stability analysis of cross-ply laminated cylindrical shells using different thin shell theories, Acta Mech **134**(3-4) 147-167 (1999), 10A735
Dynamic stability of viscoelastic columns, J Sound Vib **222**(2) 329-330 (Apr 1999), 10T736
Supercritical stability and bifurcations in axially moving web, J Theor Appl Mech **37**(2) 335-347 (1999), 10A737
Numerical simulation of cylindrical laminated shells under impulsive lateral pressure, AIAA J **37**(5) 629-633 (May 1999), 11A600
Dynamic buckling experiments of fluid-structure-coupled co-axial thin cylinder, Nucl Eng Des **188**(1) 13-26 (Apr 1999), 11A603
Dynamical properties of a viscoelastic cylindrical shell, Appl Math Mech **20**(3) 233-240 (Mar 1999), 12A679

262M. Viscoelastic and creep buckling

Effects of compressibility on the postbuckling behavior of imperfect viscoelastic columns, Comput Struct **68**(6) 561-566 (Sep 1998), 1A721
Simplified prediction of creep buckling of cylinders under external pressure - Part 1: FE validation, Eur J Mech A **17**(6) 1021-1036 (Nov-Dec 1998), 5A569
Numerical axisymmetric collapse analysis of viscoplastic cylindrical shells under axial compression, Int J Solids Struct **36**(5) 643-668 (Feb 1999), 6A706
Stability of viscoelastic beams with variable cross-section, Eur J Mech A **18**(2) 253-269 (Mar-Apr 1999), 10A738

262N. Plastic and elastoplastic buckling

Nonlinear behavior and design of steel frames and members, J Construct Steel Res **48**(2-3) 63-209 (Nov-Dec 1998), 3A639
Energy comparison in plastic buckling, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 353-358 (Jun 1998), 3A647
Bifurcation analysis of elastic-plastic cylindrical shells, Int J Non-Linear Mech **34**(2) 299-311 (Mar 1999), 4A676
Critical conditions of wrinkling in deep drawing at elevated temperature, J Mat Processing Tech **84**(1-3) 38-46 (Dec 1998), 4A718
Iterative approach to dynamic elastic-plastic analysis, J Appl Mech **65**(4) 811-819 (Dec 1998), 5A173
Buckling analysis of a heated steel strip in a continuous annealing furnace, J Manuf Sci Eng **121**(1) 76-83 (Feb 1999), 6A1406
Elastoplastic buckling of rectangular plates in biaxial compression-tension, Int J Mech Sci **41**(7) 751-765 (Jul 1999), 7A607
Studies of elastic-plastic instabilities, J Appl Mech **66**(1) 3-9 (Mar 1999), 8A671
Plastic buckling of circular cylindrical shells under nonuniform axial loads, J Appl Mech **66**(2) 374-379 (Jun 1999), 10A739
Case of indispensable localized instability in elastic-plastic solids, Int J Solids Struct **36**(30) 4669-4691 (Oct 1999), 11A497

262Y. Computational techniques

Buckling of circular cylindrical shells by the Differential Quadrature Method, Int J Pressure Vessels Piping **75**(4) 347-353 (Apr 1998), 1A722
Finite element analysis for buckling of pressure vessels with ellipsoidal head, Int J Pressure Vessels Piping **75**(2) 115-120 (Feb 1998), 1A723
Global-local postbuckling failure analysis of composite stringer-skin panels, AIAA J **36**(9) 1699-1705 (Sep 1998), 2A725
Computational prediction of instability propagation in glassy polymers, Arch Comput Methods Eng **5**(2) 167-198 (1998), 2A729
Elasticity approach for delamination buckling of composite beam plates, AIAA J **36**(8) 1529-1534 (Aug 1998), 2A730
Identification approach to estimate buckling load of damaged composite plates, AIAA J **36**(8) 1479-1485 (Aug 1998), 2A731
Adaptive multigrid solver for plate vibration and buckling problems, Comput Struct **69**(5) 625-637 (Dec 1998), 3A154
Differential quadrature approach for delamination buckling analysis of composites with shear deformation, AIAA J **36**(10) 1869-1873 (Oct 1998), 3A644
Parallel and adaptive continuation method for semilinear bifurcation problems, Comput Methods Appl Mech Eng **163**(1-4) 247-259 (Sep 1998), 4A684
Behavior of compression-loaded composite panels with stringer terminations and impact damage, J Aircraft **35**(6) 942-948 (Nov-Dec 1998), 6A690
Upper and lower bounds to bifurcational buckling loads, fundamental frequencies, and other eigenvalues via a two-term Ritz method, Indust Math **47**(2) 49-57 (1997), 6A707
Finite-element simulation of the lateral compression of aluminium tube between rigid plates, Int J Mech Sci **41**(6) 621-638 (Jun 1999), 7A608
Quadratically convergent algorithm for the computation of stability points: The application of the determinant of the tangent stiffness matrix, Comput Methods Appl Mech Eng **169**(1-2) 89-105 (Jan 1999), 7A609
Calculation of critical buckling loads for externally constrained structures, Commun Numer Methods Eng **15**(3) 193-201 (Mar 1999), 9A722
Computational methods and bifurcation theory with applications, Comput Methods Appl Mech Eng **170**(3-4) 175-448 (Mar 1999), 9A723
Constructive analysis of buckling mode interactions with single Z_2-symmetry, Int J Non-Linear Mech **34**(4) 671-683 (Jul 1999), 9A724
Instability analysis of prismatic members by wavelet-Galerkin method, Adv Eng Software **30**(5) 361-367 (May 1999), 9A725
Linear models of buckling and stress-stiffening, Comput Methods Appl Mech Eng **171**(1-2) 43-59 (Mar 1999), 9A726
Numerical convergence of simple and orthogonal polynomials for the unilateral plate buckling problem using the Rayleigh Ritz method, Int J Numer Methods Eng **44**(11) 1685-1707 (Apr 1999), 9A727
Two kinds of C^0-type elements for buckling analysis of thin-walled curved beams, Comput Methods Appl Mech Eng **171**(1-2) 87-108 (Mar 1999), 9A728
Nonlinear normal modes of buckled beams: Three-to-one and one-to-one internal resonances, Nonlinear Dyn **18**(3) 253-273 (Mar 1999), 10T714
Dynamic buckling of autonomous systems having potential energy universal unfoldings of cuspoid catastrophe, Nonlinear Dyn **18**(3) 235-252 (Mar 1999), 10T734
Simplified analysis of imperfect thermally buckled subsea pipelines, Int J Offshore Polar Eng **8**(4) 283-291 (Dec 1998), 10A740
Buckling strength prediction of CFRP cylindrical panels using FEM, Composites Part A Appl Sci and Manuf **30A**(9) 1093-1104 (1999), 12A680
Evaluation of simple bifurcation points and post-critical path in large finite rotation problems, Comput Methods Appl Mech Eng **175**(1-2) 137-156 (Jun 1999), 12A681
Numerical detection of symmetry breaking bifurcation points with nonlinear degeneracies, Math Comput **68**(227) 1097-1108 (Jul 1999), 12A682

262Z. Experimental techniques

Identification approach to estimate buckling load of damaged composite plates, AIAA J **36**(8) 1479-1485 (Aug 1998), 2A731
Experimental Mechanics: Advances in Design, Testing and Analysis, Volumes 1 and 2 (Balkema, Rotterdam, Netherlands, 1998) 3N18
Behavior of compression-loaded composite panels with stringer terminations and impact damage, J Aircraft **35**(6) 942-948 (Nov-Dec 1998), 6A690
Experimental buckling of thin composite cylinders in compression, AIAA J **37**(2) 276-278 (Feb 1999), 8T659

264. ELECTROMAGNETO SOLID MECHANICS

264B. Continuum theory

Hamiltonian structure for classical electrodynamics of a point particle, Reports Math Phys **41**(1) 13-48 (Feb 1998), 2T12
Electroelastic equilibrium of transversally isotropic piezoceramic media with hollows, inclusions and cracks (Russian), Prikl Mekh (Appl Mech) **34**(10) 109-119 (1998), 6A708
Phenomenological models of inelastic ferromagnetics on internal time scale (Russian), Prikl Mekh (Appl Mech) **34**(10) 67-72 (1998), 6A709
Thermodynamic restrictions and modeling of electromagnetic media, Appl Math Lett **12**(3) 77-81 (May 1999), 7A610
Thermodynamic permeability and permittivity of polarizable systems, Int J Appl Electromagnetics Mech **10**(2) 123-141 (Apr 1999), 9A5
Nonlinear dynamics of the alignment tensor in the presence of electric fields, Arch Mech **50**(3) 559-566 (1998), 10T31
Nonstandard introduction to squeezing of the electromagnetic field, Acta Phys Polonica B **B29**(12) 3569-3590 (Dec 1998), 10T741
Piezomagnetic parameters of the magnetostrictive materials, Arch Acoust **23**(2) 307-329 (1998), 10T742
Nonuniqueness of electromagneto-mechanical interactions in condensed matter, J Tech Phys **39**(3-4) 607-616 (1998), 11A604
Stationary solutions of the electromagnetic TE waves propagating along a single interface between the two Kerr-type nonlinear media, Acta Phys Polonica A **95**(5) 801-812 (May 1999), 12T179
Morphology, stability, and morphogenesis of dipole aggregates, Proc Estonian Acad Sci Eng **5**(2) 131-141 (Jun 1999), 12A1281

264C. Magnetoelasticity

Magnonic spectra of ferromagnetic composites versus magnetization contrast, Acta Phys Polonica A **93**(5-6) 805-810 (May-Jun 1998), 2T732
Piezoelectric fiber composites with interdigitated electrodes, J Intelligent Mat Syst Struct **8**(11) 903-919 (Nov 1997), 2A733
Rotation of domain states in ferroelastic domain structures, Acta Phys Polonica A **93**(S) 11-22 (1998), 2A734
Thermodynamically consistent formulation of magnetoporoelasticity, Int J Solids Struct **35**(34-35) 4637-4657 (Dec 1998), 3A13
Energy criteria and cumulative damage during fatigue crack growth, Int J Fatigue **20**(9) 641-649 (Oct 1998), 3A648
Existence of minimizers for a variational problem in 2D nonlinear magnetoelasticity, Arch Rational Mech Anal **144**(2) 107-120 (1998), 5A570
Magnetoelastic bending and stability of soft ferromagnetic rectangular plates, Appl Math Mech **19**(7) 669-676 (Jul 1998), 5A571
Distribution of magnetoelastic shift waves in laminated media of regular structure (Russian), Prikl Mekh (Appl Mech) **34**(10) 136-143 (1998), 6T710
Formulation of the problem of resonance vibrations and dissipative heating of piezomagnetic ceramic bodies (Russian), Prikl Mekh (Appl Mech) **34**(9) 3-8 (1998), 6T711
Problem in generalized magneto-thermoelasticity for an infinitely long annular cylinder, J Eng Math **34**(4) 387-402 (Nov 1998), 6A1403
Conductance modulation in semiconductor microstructure with periodic array of micromagnets, Acta Phys Polonica A **94**(3) 603-610 (Sep 1998), 9T729
From magnetic polarons to ferromagnetism, Acta Phys Polonica A **94**(2) 111-123 (Aug 1998), 9T730
IV-VI Semimagnetic semiconductors: Recent developments, Acta Phys Polonica A **94**(2) 189-197 (Aug 1998), 9T731
Liquid-metal flow in an electrically insulated rectangular duct with a non-uniform magnetic field, Int J Eng Sci **37**(5) 541-552 (Apr 1999), 9A732
Magneto-elastic analysis of a soft ferromagnetic plate with a through crack under bending, Int J Eng Sci **37**(6) 687-702 (May 1999), 9A733
Magneto-transport and magnetic properties of (Ga, MN)As and its heterostructures, Acta Phys Polonica A **94**(2) 155-164 (Aug 1998), 9T734
Optimization of the magnetic configuration in EMS-MAGLEV systems, Int J Appl Electromagnetics Mech **10**(1) 1-19 (Feb 1999), 9A735
Theoretical prediction of increase of natural frequency to ferromagnetic plates under in-plane magnetic fields, J Sound Vib **222**(1) 49-64 (Apr 1999), 10A164
Antiplane problem of magnetoelasticity on cracks propagation in the medium (Russian), Prikl Mekh (Appl Mech) **35**(1) 74-79 (1999), 10A743
McNU '97, joint American Society for Mechanical Engineers, American Society of Civil Engineers and Society of Engineering Sciences summer meeting held at Northwestern University, June 29-July 2, 1997, J Intelligent Mat Syst Struct **9**(6) 404-486 (Jun 1998), 10A744
Magnetization properties of grain-oriented silicon steel sheets due to bending stresses, J Tech Phys **39**(3-4) 465-472 (1998), 11A605
Vibration and dynamic instability of ferromagnetic thin plates in magnetic fields, Mech Res Commun **26**(2) 239-244 (Mar-Apr 1999), 11T606
Distortion of waves in a nonlinear magnetoelastic conductor, Arch Mech **50**(6) 1047-1053 (1998), 12A190

264D. Electroelasticity

Numerical evaluation of elastostatic fields in locally isotropic 2D composites, J Mech Phys Solids **46**(8) 1441-1462 (Aug 1998), 1A724
Design of an electrostatically excited H-type resonant gyroscope suitable for fabrication using the LIGA process, Proc Inst Mech Eng D **212**(D4) 319-332 (1998), 3A100
Simple model for the nonlinear material behavior of ferroelectrics, Acta Mat **46**(14) 5085-5094 (Sep 1998), 3A649
Brakes and clutches using ER fluids, Mechatronics **8**(7) 719-726 (Oct 1998), 4A960
Representation of the general solution for equations of static electroelasticity through harmonic functions (Russian), Prikl Mekh (Appl Mech) **34**(7) 20-26 (1998), 6A712
Dynamic behavior of a ferro-electric actuator, Math Mech Solids **4**(1) 89-107 (Mar 1999), 7A611
Effect of electricity on the mechanical properties of WC-Co alloy, J Mech Behavior Mat **9**(4) 267-276 (1998), 7T612
Coupled solution for anisotropic piezoelectric materials with cracks, Acta Mech Solida Sinica **12**(1) 83-90 (1999), 9A899
Griffith crack moving along the interface of two dissimilar piezoelectric materials, Int J Fracture **91**(2) 197-203 (1998), 9A900
Equations for the extension and flexure of electroelastic plates under strong electric fields, Int J Solids Struct **36**(21) 3171-3192 (Jul 1999), 10A745
General theory for elastic dielectrics - Part I: The vectorial approach, Int J Non-Linear Mech **34**(5) 831-841 (Sep 1999), 10A746
General theory for elastic dielectrics - II: The variational approach, Int J Non-Linear Mech **34**(5) 967-980 (Sep 1999), 10A747
Singular behavior near a crack tip in an electrostrictive material, J Mech Phys Solids **47**(5) 1027-1049 (May 1999), 10A899
Electrokinetic and poroelastic coupling during finite deformations of charged porous media, J Appl Mech **66**(2) 323-333 (Jun 1999), 10A1492
Influence of electric fields and charges on boundary-layer structure in fiber-reinforced polymer composites, Composite Mech Des **3**(2) 43-49 (1997), 11A529
Influence of cavity boundary conditions on the effective electroelastic moduli of piezoelectric ceramic with cavities, Mech Res Commun **26**(2) 229-238 (Mar-Apr 1999), 11T607

264E. Piezoelectricity

Oscillations of nonlinear thin plates excited by piezoelectric patches, Z Angew Math Mech **78**(7) 495-503 (1998), 1A157
Axisymmetric response of circular plates with piezoelectric layers: An exact solution, Int J Mech Sci **40**(12) 1265-1279 (Dec 1998), 1A725
Effect of plane nonstationary acoustic wave on cylindrical piezoceramic transducer with sectional electrodes, Prikl Mekh (Appl Mech) **34**(2) 78-85 (1998), 1A726
Effective properties of physically nonlinear piezoelectric composites, Arch Mech **50**(2) 321-340 (1998), 1A727
Electroelastic analysis of piezoelectric ceramics with surface electrodes, Int J Eng Sci **36**(9) 1001-1009 (Jul 1998), 1A728
Materials issues in design and performance of piezoelectric actuators: An overview, Acta Mat **46**(11) 3745-3753 (Jul 1998), 1A729
Piezoelectric motors-actuators and their applications, Smart Mat Struct **7**(3) 273-431 (Jun 1998), 1T730
Optimal design of periodic piezocomposites, Comput Methods Appl Mech Eng **159**(1-2) 49-77 (Jul 1998), 1A957
Thermoelectroelastic Green's function and its application for bimaterial of piezoelectric materials, Arch Appl Mech **68**(6) 433-444 (Jul 1998), 1A1362
Dynamic response of initially loaded piezoelectric plates composed of short fibers, AIAA J **36**(8) 1502-1508 (Aug 1998), 2A218
Dynamic modeling of a smart materials robot, AIAA J **36**(8) 1466-1478 (Aug 1998), 2A564
Experimental investigation of composite beams with piezoelectric actuation and debonding, Smart Mat Struct **7**(4) 502-511 (Aug 1998), 2A673
Approximation to the planar harmonic Green's function at branch points in wave-number domain, J Acoust Soc Am **104**(2-PT1) 651-663 (Aug 1998), 2A735
Homogenization of piezoelectric solid and thermodynamics, Reports Math Phys **40**(3) 585-598 (Dec 1997), 2T1328
Active vibration control of intelligent stiffened laminates using smart piezoelectric materials by the FEM, J Reinforced Plastics Composites **17**(16) 1472-1493 (1998), 3A29
Unified beam FE model for extension and shear piezoelectric actuation mechanisms, J Intelligent Mat Syst Struct **8**(12) 1012-1025 (Dec 1997), 3A47
Controlled constrained damping of layered system (Chinese), J Xi'an Jiaotong Univ **32**(8) 67-71 (1998), 3A123
Analysis of composite laminates with piezoelectric sensor-actuator (Chinese), J Xi'an Jiaotong Univ **32**(9) 76-80 (1998), 3A650
Effective moduli of piezoelectric material with microcavities, Int J Solids Struct **35**(36) 5085-5095 (Dec 1998), 3A651
Hysteresis and vibration compensation for piezoactuator, J Guidance Control Dyn **21**(5) 710-717 (Sep-Oct 1998), 3T652
Note on the class of weakly coupled problems of non-stationary piezoelectricity, Commun Numer Methods Eng **14**(9) 839-847 (Sep 1998), 3A653
Slit-like inclusion in an orthorhombic piezoelectric solid, Acta Mech **131**(1-2) 103-109 (1998), 3A654
New tools for structural testing: Piezoelectric impact hammers and acceleration rate sensors, J Guidance Control Dyn **21**(5) 692-697 (Sep-Oct 1998), 3A853
Reliability of the piezoelectric layer application to vibration and noise controls, J Vib Acoust **121**(1) 137-139 (Jan 1999), 4A132
Modeling and measurement of nonlinear dynamic behavior in piezoelectric ceramics with application to 1-3 composites, J Acoust Soc Am **104**(5) 2814-2827 (Nov 1998), 4A685
Piezoelectric coefficients of thin polymer films measured by interferometry, J Intelligent Mat Syst Struct **9**(1) 69-73 (Jan 1998), 4A686
Design of piezoactuator placements in composite adaptive structure (Chinese), J Shanghai Jiaotong Univ **32**(7) 125-127 (Jul 1998), 4A887
Coupled vibration analysis of piezoelectric ceramic disk resonators, J Sound Vib **218**(2) 205-217 (Nov 1998), 5A145
Damping of bending waves in truss beams by electrical transmission lines with PZT actuators, Arch Appl Mech **68**(9) 626-636 (Nov 1998), 5A163
Fracture criterion for conducting cracks in homogeneously poled piezoelectric PZT-PIC 151 ceramics, Acta Mat **46**(18) 6615-6622 (Nov 1998), 5A572
Green's functions for generalized 2D problems in piezoelectric media with an elliptic hole, Mech Res Commun **25**(6) 685-693 (Nov-Dec 1998), 5T573
Local-global matrix formulation for laminated piezoelectric media, Mech Res Commun **25**(6) 701-708 (Nov-Dec 1998), 5T574
Optical driving of a moving machine consisting of piezoelectric elements and temperature sensitive ferrite, J Japan Soc Precision Eng **64**(10) 1512-1516 (Oct 1998), 5A575
Two-dimensional analysis of a semi-infinite crack in piezoelectric media, Mech Res Commun **25**(6) 695-700 (Nov-Dec 1998), 5T576
Nonlinear vibration of a piezoelectric beam contacting with a fixed disk, J Sound Vib **219**(2) 339-357 (Jan 1999), 6A149
Free vibration of a piezoelectric composite rectangular plate, J Sound Vib **218**(4) 741-748 (Dec 1998), 6T159
Effect of thermal depolarization and thermomechanical dependence on harmonious oscillations and dissipative hearing of conic piezoceramic shells (Russian), Prikl Mekh (Appl Mech) **34**(8) 62-67 (1998), 6A165
Vibration and position tracking control of piezoceramic-based smart structures via QFT, J Dyn Syst Meas Control **121**(1) 27-33 (Mar 1999), 6A411
Axisymmetric actuation of composite cylindrical thin shells with piezoelectric rings, Smart Mat Struct **7**(6) 843-850 (Dec 1998), 6A611
Diffraction of acoustoelectric waves by tunnel cavities in an unbounded piezoceramic medium, J Appl Math Mech **62**(4) 649-655 (1998), 6A713
Effect of electrical polarization saturation on stress intensity factors in a piezoelectric ceramic, Int J Solids Struct **36**(6) 869-883 (Feb 1999), 6A714
Equilibrium of piezoceramic cylinder with an elliptical crack (Russian), Prikl Mekh (Appl Mech) **34**(8) 40-48 (1998), 6A715
Modeling and control of a lightly damped T-beam using piezoceramic actuators and sensors, Smart Mat Struct **7**(6) 899-906 (Dec 1998), 6A716
Nonlinear waves in the two-phase piezoelectric powders (Russian), Prikl Mekh (Appl Mech) **34**(8) 49-57 (1998), 6A717
Piezoelectric thin shell theoretical model and eigenfunction analysis of radially polarized ceramic cylinders, J Acoust Soc Am **105**(1) 154-163 (Jan 1999), 6A718
Predicting the deformation characteristics of rectangular unsymmetrically laminated piezoelectric materials, Smart Mat Struct **7**(6) 784-791 (Dec 1998), 6A719
Problems in plane thermopiezoelectric materials with holes, Int J Solids Struct **36**(3) 427-439 (Jan 1999), 6A720
Stress stiffening effects in laminated beams with piezoelectric actuators, J Intelligent Mat Syst Struct **9**(2) 137-145 (Feb 1998), 6A721
Theoretical study of the coupling effects in piezoelectric ceramics, Int J Solids Struct **36**(3) 465-487 (Jan 1999), 6A722
Transient response of a cracked infinite piezoelectric strip under antiplane impact, Fatigue Fracture Eng Mat Struct **21**(11) 1381-1388 (1998), 6A723
Numerical analysis of crack propagation in piezoelectric ceramics, Fatigue Fracture Eng Mat Struct **21**(11) 1371-1380 (1998), 6A847
Dynamic response for nonhomogeneous piezoelectric medium with multiple cracks, Eng Fracture Mech **61**(5-6) 607-617 (Nov-Dec 1998), 6A944
Optimal design of a piezoelectric smart structure for noise control, Smart Mat Struct **7**(6) 801-808 (Dec 1998), 6A1027
Finite element for composite piezoelectric laminate (Chinese), J Shanghai Jiaotong Univ **32**(11) 131-134 (Nov 1998), 7A22
Active control model of laminated piezothermoelastic plate, Int J Solids Struct **36**(13) 1925-1947 (May 1999), 7A576
Analysis of a screw dislocation inside an elliptical inhomogeneity in piezoelectric solids, Int J Solids Struct **36**(10) 1449-1469 (Apr 1999), 7A613
Electroelastic fields in layered piezoelectric spheres, Int J Eng Sci **37**(2) 143-161 (Jan 1999), 7A614
Fundamental solutions for the plane problem in piezoelectric media with an elliptic hole or a crack, Appl Math Mech **19**(11) 1043-1052 (Nov 1998), 7A615
General solution for the plane problem in piezoelectric media with collinear cracks, Int J Eng Sci **37**(3) 347-363 (Feb 1999), 7A616
Stress dependency of the thermoelastic and piezoelectric coefficients, AIAA J **37**(1) 135-137 (Jan 1999), 7T617
Closed crack tip model for interface cracks in thermopiezoelectric materials, Int J Solids Struct **36**(16) 2463-2479 (Jun 1999), 7A739
Special Issue: Third US Army Research Office Workshop on Smart Structures, J Intelligent Mat Syst Struct **9**(3) 160-237 (Mar 1998), 7T826
Dynamics of delaminated composite plates with piezoelectric actuators, AIAA J **37**(2) 248-254 (Feb 1999), 8A145
Modal sensing of circular cylindrical shells using segmented piezoelectric elements, Smart Mat Struct **8**(1) 125-135 (Feb 1999), 8A181
Equations for thick elastic plates with partially electroded piezoelectric actuators and higher order electric fields, Smart Mat Struct **8**(1) 73-82 (Feb 1999), 8A642
Exact solutions for the plane problem in piezoelectric materials with an elliptic or a crack, Int J Solids Struct **36**(17) 2527-2540 (Jun 1999), 8A672
Fictitious absorption method in dynamic electroelasticity problems, J Appl Math Mech **62**(5) 771-776 (1998), 8A673
Finite element analysis of the piezoelectric vibrations of quartz plate resonators with higher-order plate theory, Int J Solids Struct **36**(15) 2303-2319 (May 1999), 8A674
Second-order solution of St Venant's problem for a piezoelectric circular bar using Signorini's perturbation method, J Elast **52**(1) 75-90 (1998), 8A675
Solutions for transversely isotropic piezoelectric infinite body, semi-infinite body and bimaterial infinite body subjected to uniform ring loading and charage, Int J Solids Struct **36**(17) 2613-2631 (Jun 1999), 8A676

Three dimensional axisymmetric piezothermoelastic solution of clamped circular elastic plate bonded to piezoceramic plate, Z Angew Math Mech **79**(2) 117-129 (1999), 8A677
Two-dimensional stress intensity factor computations using BEM for piezoelectric media (Chinese), J Shanghai Jiaotong Univ **32**(12) 74-76 (Dec 1998), 8A775
Active control of a beam using a piezoceramic element, Smart Mat Struct **8**(1) 116-124 (Feb 1999), 8A845
Modeling and validation of induced strain actuation of composite coupled plates, AIAA J **37**(3) 372-377 (Mar 1999), 8A851
Analysis of microstructural fields in heterogeneous piezoelectric solids, Int J Eng Sci **37**(6) 665-685 (May 1999), 9A736
Effective moduli for thermopiezoelectric materials with microcracks, Int J Fracture **91**(4) 359-371 (1998), 9A737
Elasticity solutions for a piezoelectric cone under concentrated loads at its apex, Appl Math Mech **20**(1) 12-17 (Jan 1999), 9A738
Thickness-shear high voltage piezoelectric transformer, Int J Appl Electromagnetics Mech **10**(2) 105-121 (Apr 1999), 9A739
Three-dimensional solution for shape control of a simply supported rectangular hybrid plate, J Thermal Stresses **22**(2) 159-176 (Mar 1999), 9A740
Anti-plane crack moving along the interface of dissimilar piezoelectric materials, Acta Mech Solida Sinica **12**(1) 31-35 (1999), 9A896
Dynamic antiplane behavior of interacting cracks in a piezoelectric medium, Int J Fracture **91**(4) 391-403 (1998), 9A906
Exact solution of crack problems in piezoelectric materials, Appl Math Mech **20**(1) 51-58 (Jan 1999), 9A925
Piezoelectric interfacial waves in two-medium structures, Arch Acoust **23**(4) 521-531 (1998), 10A259
Scattering of Love waves by a surface-breaking crack in piezoelectric layered media, JSME Int J Ser A **41**(1) 40-48 (Jan 1998), 10A266
General theory for elastic dielectrics - Part I: The vectorial approach, Int J Non-Linear Mech **34**(5) 831-841 (Sep 1999), 10A746
General theory for elastic dielectrics - II: The variational approach, Int J Non-Linear Mech **34**(5) 967-980 (Sep 1999), 10A747
Anti-plane shear crack in a piezoelectric layer bonded to dissimilar half spaces, JSME Int J Ser A **42**(1) 66-72 (Jan 1999), 10A748
Elastic and electric fields for elliptical Hertzian contact for transversely isotropic piezoelectric bodies, J Appl Mech **66**(2) 560-563 (Jun 1999), 10T749
Excitation of spherical piezoemitter with nonstationary electric signals with regard for the processes in the cable path (Russian), Prikl Mekh (Appl Mech) **35**(2) 41-46 (1999), 10A750
Fundamental solution for a penny-shaped crack in a piezoelectric medium, J Mech Phys Solids **47**(7) 1459-1475 (Jul 1999), 10A751
Fundamental solutions for transversely isotropic piezoelectricity and BEM, Comput Struct **71**(4) 447-455 (May 1999), 10A752
Green's function of an external circular crack in a transversely isotropic piezoelectric medium, JSME Int J Ser A **42**(1) 73-79 (Jan 1999), 10A753
Interacting circular inclusions to antiplane piezoelectricity, Int J Solids Struct **36**(22) 3349-3373 (Aug 1999), 10A754
Interface crack problems of a laminated piezoelectric plate, Eur J Mech A **18**(2) 219-238 (Mar-Apr 1999), 10A755
Macrocrack-microcrack interaction in piezoelectric materials - Part I: Basic formulations and J-analysis, J Appl Mech **66**(2) 514-521 (Jun 1999), 10A756
Macrocrack-microcrack interaction in piezoelectric materials - Part II: Numerical results and discussions, J Appl Mech **66**(2) 522-527 (Jun 1999), 10A757
Problems of radially polarized bodies, Int J Solids Struct **36**(28) 4317-4332 (Oct 1999), 10A758
Three dimensional analysis of piezoelectric circular cylindrical shell of finite length, Acta Mech **134**(3-4) 235-249 (1999), 10A759
Variational bounds on the effective moduli of anisotropic piezoelectric composites, Arch Mech **50**(4) 675-689 (1998), 10A760
Multiple parallel cracks interaction problem in piezoelectric ceramics, Int J Solids Struct **36**(22) 3375-3390 (Aug 1999), 10A923
Analytical solution for an arbitrarily oriented void-crack and fracture of piezoceramics, Acta Mat **47**(6) 1735-1747 (Apr 1999), 10A941
Measurement of static strain distribution using piezoelectric polymer film - Principle and application to a holed plate, JSME Int J Ser A **42**(1) 11-16 (Jan 1999), 10A972
Experimental verification of relaxation of stress concentrations in an adaptive plate with a circular hole using piezoelectric actuators, JSME Int J Ser A **41**(1) 142-148 (Jan 1998), 10A982
Static deformation control of a laminated composite plate with piezoelectric actuators, JSME Int J Ser A **41**(2) 267-273 (Apr 1998), 10A984
Flow of conductive fluids through poroelastic media with piezoelectric properties, J Theor Appl Mech **36**(3) 775-794 (1998), 10A1479
Free axisymmetric vibration of transversely isotropic piezoelectric circular plates, Int J Solids Struct **36**(30) 4629-4652 (Oct 1999), 11A200
Selective modal transducers for piezolaminated anisotropic shells, J Guidance Control Dyn **22**(3) 455-466 (May-Jun 1999), 11A398
Theory of indentation of piezoelectric materials, Acta Mat **47**(7) 2153-2164 (May 1999), 11A470
Influence of cavity boundary conditions on the effective electroelastic moduli of piezoelectric ceramic with cavities, Mech Res Commun **26**(2) 229-238 (Mar-Apr 1999), 11T607
Application of the potential function method in piezothermoelasticity: Solutions for composite circular plates, J Thermal Stresses **22**(4-5) 387-420 (May-Jul 1999), 11A608
Bimaterial interface hybrid element for piezoelectric laminated analysis, J Strain Anal Eng Des **34**(2) 97-106 (Mar 1999), 11A609
Piezoelectric inhomogeneity related problem - Part I: A close-form solution for the stress field outside a circular piezoelectric inhomogeneity, Int J Eng Sci **37**(8) 945-959 (Jun 1999), 11A610
Piezoelectric inhomogeneity related problems - Part II: A circular piezoelectric inhomogeneity interacting with a nearby crack, Int J Eng Sci **37**(8) 961-976 (Jun 1999), 11A611
Recurve piezoelectric-strain-amplifying actuator architecture, IEEE/ASME Trans Mechatronics **3**(4) 293-301 (Dec 1998), 12A481
Indentation of a transversely isotropic piezoelectric half-space by a rigid sphere, Acta Mech Solida Sinica **12**(2) 114-120 (Jun 1999), 12A577
Laminate theory of piezoresistance for composite laminates, Composites Sci Tech **59**(9) 1369-1373 (Jul 1999), 12A626
Crack kinking in a piezoelectric solid, Int J Solids Struct **36**(33) 5013-5027 (Nov 1999), 12A683
Exact solution of a semi-infinite crack in an infinite piezoelectric body, Arch Appl Mech **69**(5) 309-316 (Jun 1999), 12A684
Experimental study of spherical indentation of piezoelectric materials, Acta Mat **47**(8) 2417-2430 (Jun 1999), 12A685
St-Venant's principle for a piezoelectric body, SIAM J Appl Math **59**(3) 1098-1111 (Dec 1998), 12A686
Thermoelectroelastic analysis of cracks in piezoelectric half-plane by BEM, Comput Mech **23**(4) 353-360 (May 1999), 12A687
Three-dimensional exact solution for inhomogeneous and laminated piezoelectric plates, Int J Eng Sci **37**(11) 1425-1439 (Sep 1999), 12A688
Crack problems of piezoelectric materials, Acta Mech Solida Sinica **12**(2) 95-105 (Jun 1999), 12A836

264F. Elastic stability in electromagnetic fields

Transient vibrations of a simply-supported beam with axial loads and transverse magnetic fields, Mech Struct Machines **26**(2) 115-130 (1998), 1A145
Electric-field induced interfacial cracking in multilayer electrostrictive actuators, J Mech Phys Solids **46**(8) 1301-1318 (Aug 1998), 1A853
Dynamics and fuzzy control of a levitated particle, Nonlinear Dyn **17**(1) 61-76 (Sep 1998), 4A427
Magnetic actuation of hinged microstructures, J Microelectromechanical Syst **8**(1) 10-17 (Mar 1999), 8T445
Theoretical prediction of increase of natural frequency to ferromagnetic plates under in-plane magnetic fields, J Sound Vib **222**(1) 49-64 (Apr 1999), 10A164

264G. Mechanics of superconducting materials

Isotope effect in superconducting materials with singular energy spectra, J Tech Phys **39**(1) 149-153 (1998), 1A731
Structural and superconducting phase transitions in LA214 class of high-T_c superconductors, J Tech Phys **39**(1) 155-160 (1998), 1A732
Vortex equations, Reports Math Phys **40**(2) 329-341 (Oct 1997), 2A736
Motion of superconducting vortices in thin films of varying thickness, SIAM J Appl Math **58**(6) 1808-1825 (Dec 1998), 5A577
Synthesizing and physical properties of GdPr-123 high-T_c superconductor, Mat Manuf Processes **13**(6) 811-819 (1998), 5T578
Magnetic thrust bearing concepts: Tests and analyses, J Intelligent Mat Syst Struct **9**(2) 81-86 (Feb 1998), 6A1103
Asymmetric minimizers for the 1D Ginzburg-Landau model of superconductivity, SIAM J Math Anal **30**(1) 1-18 (Sep-Nov 1998), 7A618
Global weak solutions for the Ginzburg-Landau equations of superconductivity, Appl Math Lett **12**(3) 115-118 (May 1999), 7A619
Estimates of the upper critical field for the Ginzburg-Landau equations of superconductivity, Physica D **127**(1-2) 73-104 (Mar 1999), 8A678
Breakdown of superconductivity due to strong fields for the Ginzburg-Landau model, SIAM J Math Anal **30**(2) 341-359 (Nov 1998), 9A741
Diluted magnetic semiconductor investigations in Ukraine: Nature of some additional lines in QW optical spectra, Acta Phys Polonica A **94**(2) 165-176 (Aug 1998), 9T742
Asymptotic analysis of the 1D Ginzburg-Landau equations near self-duality, Quart Appl Math **57**(2) 355-367 (Jun 1999), 10A761
Simplified models of superconducting-normal-superconducting junctions and their numerical approximations, European J Appl Math **10**(1) 1-25 (Feb 1999), 10A762
Study of the stressed state of piezoceramic body containing the external elliptical crack (Russian), Prikl Mekh (Appl Mech) **35**(1) 37-44 (1999), 10A763
Superconducting fullerenes in a nonconventional thermodynamic model, Arch Mech **50**(3) 497-508 (1998), 10A764

264Y. Computational techniques

Density of states for Drude-Lorentz model of nonpolar dielectric, Acta Phys Polonica B **B29**(6) 1795-1801 (Jun 1998), 2T9
Scattering by a rotating circular conducting cylinder I, Reports Math Phys **41**(2) 223-233 (Apr 1998), 2T737
Scattering by a rotating circular conducting cylinder II, Reports Math Phys **41**(2) 235-244 (Apr 1998), 2T738
Forces and torques between two square current loops, Int J Appl Electromagnetics Mech **10**(1) 63-76 (Feb 1999), 9A743
Tabu search coupled with deterministic strategies for the optimal design of MRI devices, Int J Appl Electromagnetics Mech **10**(1) 21-31 (Feb 1999), 9A744
Various methods to the thermistor problem with a bulk electrical conductivity, Int J Numer Methods Eng **45**(1) 1-12 (May 1999), 10A765
Conducting crack propagating in elastic dielectric influenced by strong electromagnetic field, J Tech Phys **39**(3-4) 569-581 (1998), 11A819

264Z. Experimental techniques

Easy-plane magnetic anisotropy induced by stress-annealing in finemet-type materials, Acta Phys Polonica A **93**(5-6) 799-804 (May-Jun 1998), 2A739
Development of magnetic materials and processing techniques applicable to integrated micromagnetic devices, J Micromech Microeng **8**(4) 307-316 (Dec 1998), 6T436
Gradually devitrified Co-based metallic glass as a model material for testing Neel's theory of the Rayleigh rule, Acta Phys Polonica A **95**(2) 287-296 (Feb 1999), 9T745
Preparation of composition films with amorphous FeB alloys embedded in a plastic matrix, J Tech Phys **39**(3-4) 583-592 (1998), 11T612
Losses in a piezoelectric ceramic in high fields, Arch Acoust **24**(1) 57-74 (1999), 12A689
Mossbauer spectroscopy and some magnetic properties of Fe-6.5% Si alloy, Arch Naukio Mat **19**(2) 107-114 (1998), 12T690

266. SOIL MECHANICS (BASIC)

266A. General theory

Reduction of the dimension in 3D stochastic medium using diffusive approach (Polish), Hydro-Tech Transactions **61** 43-73 (1997), 1A733
Behaviour of Granular Materials (Springer-Verlag, Wien, 1998) 2N11
Characteristic water contents of a fine-grained soil-water system, Geotechnique **48**(3) 337-346 (Jun 1998), 2A740
Kinematic model for solids flow in flat-bottomed silos, Geotechnique **48**(4) 545-553 (Aug 1998), 3A655
Theoretical analysis of centrifugal model tests on reinforced earth structures, Geotechnique **48**(4) 563-567 (Aug 1998), 3A670
Deformation of granular materials due to rotation of principal axes, Geotechnique **48**(5) 605-619 (Oct 1998), 4A687
Micromechanics of crushable aggregates, Geotechnique **48**(5) 667-679 (Oct 1998), 4A688
Mechanics of Residual Soils (Balkema, Rotterdam, Netherlands, 1997) 5N25
Proceedings of the Fourteenth International Conference on Soil Mechanics and Foundation Engineering (Balkema, Rotterdam, Netherlands, 1997) 5N28
Recent Developments in Soil and Pavement Mechanics (Balkema, Rotterdam, Netherlands, 1997) 5N29
Developments in the mechanics of reinforced soil: Empirical background and analytical approaches, Appl Mech Rev **51**(11) 651-668 (Nov 1998), 5A579
Comparison of elastic-plastic soil models for 2D FE analyses of tunneling, Comput Geotech **23**(1-2) 19-38 (1998), 6A724
Three-dimensional coupled heat, moisture, and air transfer in a deformable unsaturated soil, Int J Numer Methods Eng **44**(7) 919-943 (Mar 1999), 7A620
Geoenvironmental engineering, Comput Geotech **24**(1) 3-87 (1999), 9A1553
Centrifuge '98 (Balkema, Rotterdam, Netherlands, 1998) 11N17
Soil mechanics and its influence on the geotechnical engineering (Polish), Inzynieria Budownictwo **54**(11) 595-601 (1998), 11T613
Geotechnics of Hard Soils - Soft Rocks (Balkema, Rotterdam, Netherlands, 1998) 12N18
Mechanics of Granular Materials: Introduction (Balkema, Rotterdam, Netherlands, 1999) 12N19
Problematic Soils (Balkema, Rotterdam, Netherlands, 1998) 12N21
Geomechanics, Int J Solids Struct **36**(31-32) 4699-4974 (Nov 1999), 12A691
Homogeneous and localized deformation in water-infiltrated soils, Int J Damage Mech **8**(3) 233-253 (Jul 1999), 12A692

266B. Structure and classification

Microstructure of shear bands and its relation to the mechanisms of dilatancy and failure of dense granular soils, Geotechnique **48**(4) 465-481 (Aug 1998), 3A658
Experimental analysis on the use of fly ash to improve soil quality (Japanese), Proc JSCE **603**(III-44) 77-88 (Sep 1998), 5A583
Microstructure and mechanical properties of diatom earth (Japanese), Proc JSCE **610**(III45) 19-29 (Dec 1998), 7A621
Development of an all terrain vehicle suspension with an efficient, oval track, J Terramech **35**(4) 209-223 (Oct 1998), 7A870
Effects of a roller and a tracked vehicle on the compaction of a high lifted decomposed granite sandy soil, J Terramech **35**(4) 265-293 (Oct 1998), 7A871

266C. Constitutive relations and models

Constitutive study of thermo-elastoplasticity of deep carbonatic clays, Int J Numer Anal Methods Geomech **22**(7) 549-574 (Jul 1998), 1A734
General stress strain relation of soils involving the rotation of principal stress axes, Appl Math Mech **19**(5) 437-444 (May 1998), 1A735
Simple constitutive model for granular soils: Modified stress-dilatancy approach, Comput Geotech **22**(2) 109-133 (1998), 1A736
Statistical theories for the elastic moduli of 2D assemblies of granular materials, Int J Eng Sci **36**(10) 1127-1142 (Aug 1998), 1A737
CASM: A unified state parameter model for clay and sand, Int J Numer Anal Methods Geomech **22**(8) 621-653 (Aug 1998), 2A741
Modeling of shearing behavior of a residual soil with Recurrent Neural Network, Int J Numer Anal Methods Geomech **22**(8) 671-687 (Aug 1998), 2A742
Principle of axial shear apparatus, Geotechnique **48**(3) 427-431 (Jun 1998), 2T743
Constitutive model with micro-slip mechanism and its application to large deformation problems (Japanese), Proc JSCE **598**(I-44) 257-268 (Jul 1998), 3A656
Modeling the behavior of unsaturated soil using an elastoplastic constitutive model, Geotechnique **48**(5) 589-603 (Oct 1998), 4A689
Nonlinear law of the deformation of soft soils, J Appl Math Mech **62**(3) 465-472 (1998), 5A580
Rational approach to anisotropy of sand, Int J Numer Anal Methods Geomech **22**(11) 921-940 (Nov 1998), 5A581
H-adaptive FE analysis of elastoplastic non-homogeneous soil with large deformation, Comput Geotech **23**(1-2) 61-83 (1998), 6A26
Consequences of the t_{ij}-concept and a new modeling approach, Comput Geotech **23**(3) 131-164 (1998), 6A725

Modeling of crustal layering using 3D analysis of stress-drop slip zones in an elastic layer and half-space system, Bull Seismol Soc Am **88**(6) 1572-1579 (Dec 1998), 6A726
Numerical model of ground deformation induced by single well pumping, Comput Geotech **23**(1-2) 39-60 (1998), 6A775
Validation of a non-associated critical state model, Comput Geotech **23**(4) 277-287 (1998), 7A622
Hyperelasticity for clays, Comput Geotech **23**(4) 221-236 (1998), 7A624
Cell size for water content-dielectric constant calibrations for time domain reflectometry, Geotech Testing J **22**(1) 3-12 (Mar 1999), 8A679
Optimal Control of Soil Venting: Mathematical Modeling and Applications (Birkhauser Boston, MA, 1999) 9N30
Constitutive modeling of a reinforced soil using hierarchical model, Int J Numer Anal Methods Geomech **23**(3) 217-241 (Mar 1999), 9A746
Nonlinear elastic-perfectly plastic analysis for plane strain undrained expansion tests, Geotechnique **49**(1) 133-141 (Feb 1999), 9T747
Ring shear tests on soil from the Vaiont landslide slip surface, Geotechnique **49**(1) 59-74 (Feb 1999), 9A748
Behavior of sand confined with single and multiple geocells, Geotextiles Geomembranes **17**(3) 171-184 (Jun 1999), 10A791
Modeling the large deformations in stratified media: The Cosserat continuum approach, Mech Cohesive-Frictional Mat **4**(3) 195-213 (May 1999), 11A515
Elastoplastic modeling of Red Wildmoor sandstone, Mech Cohesive-Frictional Mat **4**(3) 215-245 (May 1999), 11A614
Existence and uniqueness theorems for boundary value problems involving incrementally nonlinear models, Int J Solids Struct **36**(33) 5089-5099 (Nov 1999), 12A693

266D. Pore pressure, phase movement

Generation of stochastic coefficients for Mualem and van Genuchten models describing hydraulic properties of soils (Polish), Hydro-Tech Transactions **61** 11-30 (1997), 1A738
Investigation of the soil phase composition below 0°C by means of differential scanning calorimetry, Arch Hydro-Eng Env Mech **43**(1-4) 59-77 (1996), 1A739
Impedance functions of square foundations embedded in an incompressible half-space, Eng Anal Boundary Elements **22**(1) 1-11 (Jul 1998), 2A744
Strain localization modeling and pore pressure in saturated sand samples, Comput Mech **22**(3) 266-280 (Sep 1998), 3A657
Deformation analysis of thin elastic membranes in multiple contact, Adv Eng Software **30**(3) 177-183 (Mar 1999), 8A680
Estimation of the pore volume in rock mass by air vacuuming (Japanese), Proc JSCE **617**(III-46) 225-234 (Mar 1999), 11A666

266E. Mechanical properties

Fuzzy clustering of paddy field soils in South China, J Terramech **35**(1) 21-24 (Jan 1998), 2A745
Microstructure of shear bands and its relation to the mechanisms of dilatancy and failure of dense granular soils, Geotechnique **48**(4) 465-481 (Aug 1998), 3A658
Soil stiffness in stress paths relevant in diaphragm walls in clay, Geotechnique **48**(4) 483-494 (Aug 1998), 3A659
Effect of berms on sheet-pile wall behavior, Geotechnique **48**(4) 569-574 (Aug 1998), 3A665
Generalized two-phase mixture model and its application to composite ground, Memoirs Fac Eng Kyushu Univ **58**(2) 83-109 (Jun 1998), 4A609
Unique relationship for $_x$ for the determination of the shear strength of unsaturated soils, Geotechnique **48**(5) 681-687 (Oct 1998), 4T690
Effects of non-plastic fines on minimum and maximum void ratios of sand, Geotech Testing J **21**(4) 336-347 (Dec 1998), 5A582
Experimental analysis on the use of fly ash to improve soil quality (Japanese), Proc JSCE **603**(III-44) 77-88 (Sep 1998), 5A583
Shear strength characteristics of Madinah clay with sand compaction piles, Geotech Testing J **21**(4) 356-364 (Dec 1998), 5A584
Effect of calcium ions in pore water on the residual shear strength of kaolinite and sodium montmorillonite, Geotechnique **48**(6) 787-800 (Dec 1998), 6A727
Relationship between paddy soil adhesion to steel and to rubber, J Terramech **35**(3) 155-158 (Jul 1998), 6A728
Centrifuge model tests on doubly propped embedded retaining walls in overconsolidated kaolin clay, Geotechnique **48**(6) 833-846 (Dec 1998), 6A730
Microstructure and mechanical properties of diatom earth (Japanese), Proc JSCE **610**(III45) 19-29 (Dec 1998), 7A621
Study on consistency limits of acidified soil by air drying (Japanese), Proc JSCE **610**(III45) 97-104 (Dec 1998), 7A623
New estimates of overall properties of heterogeneous solids, J Mech Phys Solids **47**(4) 899-920 (Apr 1999), 8A14
Plane strain strength and deformation of sands affected by batch variations and different apparatus types, Geotech Testing J **22**(1) 80-100 (Mar 1999), 8A681
Triaxial testing system to evaluate stress-strain behavior of soils for wide range of strain and strain rate, Geotech Testing J **22**(1) 44-60 (Mar 1999), 8A682
Ring shear tests on soil from the Vaiont landslide slip surface, Geotechnique **49**(1) 59-74 (Feb 1999), 9A748
Virgin compression of structured soils, Geotechnique **49**(1) 43-57 (Feb 1999), 9A749
Ground deformations and stress redistribution due to a reduction in volume of zones of soil at depth, Geotechnique **49**(1) 111-126 (Feb 1999), 9A756
Effect of strength anisotropy on undrained slope stability in clay, Geotechnique **49**(2) 215-230 (Apr 1999), 10A766
Effect of wetting and drying on soil physical properties, J Terramech **36**(1) 39-49 (Jan 1999), 10A767
Influences on the shear modulus and damping ratio of hydraulic reclaimed soil in West Taiwan, Int J Offshore Polar Eng **8**(3) 228-235 (Sep 1998), 10A768
Undrained shear strength of a glacial clay overconsolidated by desiccation, Geotechnique **49**(2) 181-198 (Apr 1999), 10A769
Influence of soil structure and stress history on the soil-water characteristics of a compacted till, Geotechnique **49**(2) 143-159 (Apr 1999), 10A771
Absorption water content and liquid limit of soils, Geotech Testing J **22**(2) 127-133 (Jun 1999), 11A615
Behavior of frozen and thawed clay soil under axisymmetric triaxial condition (Japanese), Proc JSCE **617**(III-46) 275-282 (Mar 1999), 11A616
Effect of pH on consistency of soils (Japanese), Proc JSCE **617**(III-46) 283-297 (Mar 1999), 11A617
Effects of grain shape and particle breakage on shear strength of parallel grading coarse materials (Japanese), Proc JSCE **617**(III-46) 201-211 (Mar 1999), 11T618
Magnetic properties and crystal chemistry of oxide spinel solid solutions, Surveys Geophys **19**(6) 461-520 (1998), 11A619
Shear strength of undisturbed volcanic cohesive soils undergoing cementation (Japanese), Proc JSCE **617**(III-46) 175-189 (Mar 1999), 11A620
Study on the effect of urethane grouting into low-permeable ground: The characteristics of effects varied on the ground types (Japanese), Proc JSCE **616**(VI-42) 21-34 (Mar 1999), 11A621
Triaxial compression behavior of sand and gravel using artificial neural networks, Comput Geotech **24**(3) 207-230 (1999), 12A694

266F. Expansive clays

Centrifuge modeling of the transport of a pulse of two contaminants through a clay layer, Geotechnique **48**(3) 421-425 (Jun 1998), 2T1523
Mechanical behavior of a natural soft clay, Geotechnique **48**(4) 495-513 (Aug 1998), 3A660
Direct shear test results on Ariake, Bothkennar, Champlain and Drammen clays (Japanese), Proc JSCE **603**(III-44) 167-177 (Sep 1998), 5A585
Drum centrifuge study of three-leg jackup models on clay, Geotechnique **48**(6) 761-785 (Dec 1998), 6A729
Hyperelasticity for clays, Comput Geotech **23**(4) 221-236 (1998), 7A624

266G. Consolidation, settlement, and compaction

Elastoplastic consolidation at finite strain - Part 2: FE implementation and numerical examples, Comput Methods Appl Mech Eng **159**(1-2) 103-122 (Jul 1998), 1A740
One dimensional consolidation of layered and saturated soils under cyclic loading (Chinese), J Vib Eng **11**(2) 184-193 (Jun 1998), 1T741
Consolidation and permeability behavior of high porosity baltic seabed sediments, Geotech Testing J **21**(3) 185-194 (Sep 1998), 2A746
Mechanism controlling the shrinkage limit of soils, Geotech Testing J **21**(3) 240-250 (Sep 1998), 2A747
Contribution to optimum design of piled rafts, Geotechnique **48**(3) 301-317 (Jun 1998), 2A757
Study on use of vibration to reduce soil adhesion, J Terramech **35**(2) 87-101 (Apr 1998), 2A765
Time effects in the compression of sands, J Elast **50**(3) 695-701 (1998), 4T691
Von Neumann stability analysis of Biot's general 2D theory of consolidation, Int J Numer Methods Eng **43**(5) 955-974 (Nov 1998), 4A692
Analysis of self-boring pressuremeter tests in overconsolidated clays, Geotechnique **48**(5) 689-693 (Oct 1998), 4T694
Distribution of sand void diameter by air intrusion method and moisture characteristic curve method (Japanese), Proc JSCE **603**(III-44) 35-44 (Sep 1998), 5A586
Centrifuge model tests on doubly propped embedded retaining walls in overconsolidated kaolin clay, Geotechnique **48**(6) 833-846 (Dec 1998), 6A730
Coupled consolidation of a solid, infinite cylinder using a Terzaghi formulation, Comput Geotech **23**(3) 193-204 (1998), 6A731
Deformations induced by tunneling operations (French), Geotechnique **48**(6) 801-818 (Dec 1998), 6A751
Constant rate of strain consolidation equipment and procedure for stabilized soils, Geotech Testing J **22**(1) 13-21 (Mar 1999), 8A683
Fast and slow compaction in sedimentary basins, SIAM J Appl Math **59**(1) 365-385 (Sep 1998), 8A684
Consolidation analysis with pore water pressure measurements, Geotechnique **49**(1) 127-132 (Feb 1999), 9T750
Consolidation of fissured clays, Geotechnique **49**(1) 75-89 (Feb 1999), 9A751
Numerical solution of a nonlinear model for self-weight solids settlement, Appl Math Model **23**(5) 345-362 (May 1999), 9A752
Prediction of elastic settlement of rectangular raft foundation: A coupled FE-BE approach, Int J Numer Anal Methods Geomech **23**(3) 263-273 (Mar 1999), 9A753
Geotechnical Engineering of Landfills (Telford, UK, 1998) 10N31
Undrained shear strength of a glacial clay overconsolidated by desiccation, Geotechnique **49**(2) 181-198 (Apr 1999), 10A769
Efficient approach for settlement prediction of pile groups, Geotechnique **49**(2) 161-179 (Apr 1999), 10A770
Influence of soil structure and stress history on the soil-water characteristics of a compacted till, Geotechnique **49**(2) 143-159 (Apr 1999), 10A771
Consolidation of a porous multilayered subsoil undergoing large deformation, J Theor Appl Mech **36**(3) 759-773 (1998), 10A1506
Biot consolidation analysis with automatic time stepping and error control - Part 1: Theory and implementation, Int J Numer Anal Methods Geomech **23**(6) 467-492 (May 1999), 11A622
Biot consolidation analysis with automatic time stepping and error control - Part 2: Applications, Int J Numer Anal Methods Geomech **23**(6) 493-529 (May 1999), 11A623
Consolidation behavior of clay ground improved by partly penetrated SCP (Japanese), Proc JSCE **617**(III-46) 101-113 (Mar 1999), 11A624
Finite element analysis of consolidation of layered clay soils using an elastic viscoplastic model, Int J Numer Anal Methods Geomech **23**(4) 355-374 (Apr 1999), 11A625
Study on relationship between consolidation-compactness and size grade shortage of coal gangue (CHI), J China Univ Mining Tech **28**(3) 212-216 (1999), 11A626
Theory of characteristic-line field for anisotropically consolidated clay (Japanese), Proc JSCE **617**(III-46) 251-260 (Mar 1999), 11A627
Three-dimensional FE modeling for consolidation due to groundwater withdrawal in a desaturating anisotropic aquifer system, Int J Numer Anal Methods Geomech **23**(6) 549-571 (May 1999), 11A628
Transition of localized deformation mode developing in the normally consolidated clay specimen (Japanese), Proc JSCE **617**(III-46) 1-18 (Mar 1999), 11A629
Verification of improvement effect of vibrational compaction method with absorbing excess pore water pressure at gravelly ground (Japanese), Proc JSCE **617**(III-46) 261-274 (Mar 1999), 11A630
Geotechnical Engineering for Transportation Infrastructure: Theory and Practice, Planning and Design, Construction and Maintenance, Volume 3 (Balkema, Rotterdam, Netherlands, 1999) 12N17
Effect of coefficient of stresses concentration in Frohlich formula on settlement of weak layer under mound (Polish), Inzynieria Budownictwo **55**(5) 291-293 (1999), 12T695

266H. Soil and sand liquefaction

Plane shear waves under a periodic boundary disturbance in a saturated granular medium, Physica D **121**(1-2) 193-212 (Oct 1998), 3A225
Fundamental yet simplified model for liquefaction instability, Int J Numer Anal Methods Geomech **22**(9) 721-748 (Sep 1998), 3A661
Liquefaction of crushable soils, Geotechnique **48**(4) 527-543 (Aug 1998), 3A662
Distribution of sand void diameter by air intrusion method and moisture characteristic curve method (Japanese), Proc JSCE **603**(III-44) 35-44 (Sep 1998), 5A586
Fluid dynamics based prediction of liquefaction induced lateral spreading, Comput Geotech **22**(3-4) 243-282 (1998), 5A587
Reliability design method of ground improvement for liquefaction (Japanese), Proc JSCE **603**(III-44) 101-111 (Sep 1998), 5A588
Mechanism of liquefaction response in sand-silt dynamic centrifuge tests, Soil Dyn Earthquake Eng **18**(1) 71-85 (Jan 1998), 6A732
Spatial variation in liquefaction risk, Geotechnique **48**(6) 819-831 (Dec 1998), 6A733
Influence of soil structure and stress history on the soil-water characteristics of a compacted till, Geotechnique **49**(2) 143-159 (Apr 1999), 10A771
Love wave-induced liquefaction in a saturated sand layer, J Theor Appl Mech **36**(3) 723-744 (1998), 10A772
Unsaturated hydraulic conductivity of mine tailings under wetting and drying conditions, Geotech Testing J **22**(2) 144-152 (Jun 1999), 11A631

266I. Rheological properties

Damage model for jointed rock mass and its application to tunneling, Comput Geotech **22**(3-4) 183-203 (1998), 5A619

266J. Plasticity, viscoelasticity, and viscoplasticity

Elastoplastic constitutive model for unsaturated soil and its FEM (Chinese), J China Univ Mining Tech **27**(3) 221-224 (1998), 3A663
Creep and stress relaxation of geotextile-reinforced soils, Geosynthetics Int **5**(4) 425-434 (1998), 4A704
Finite-strain Cam-clay model in the framework of multiplicative elasto-plasticity, Int J Plasticity **14**(12) 1155-1187 (1998), 6A734
Seismic plastic deformation in the free field, Int J Numer Anal Methods Geomech **23**(1) 45-60 (Jan 1999), 6A735
Unified slip line solution of the wedge's ultimate load and its application in geotechnical engineering (Chinese), J Xi'an Jiaotong Univ **32**(12) 59-62 (1998), 6A736
Numerical modeling of strain localization in dense sands, Acta Polytech Scand Civil Eng Build **0**(113) 7-269 (1999), 7A625
Towards efficient and robust elements for 3D-soil plasticity, Comput Struct **70**(1) 23-34 (Jan 1999), 7A626
Velocity field for the punch problem for dilatant granular materials, Quart J Mech Appl Math **51**(PT1) 99-110 (Feb 1999), 8A685
Formulation and FE implementation of a multiplicative model of coupled poro-plasticity at finite strains under fully saturated conditions, Comput Methods Appl Mech Eng **171**(3-4) 205-241 (Apr 1999), 10A773
Comparison of incremental behavior of elastoplastic and CLoE models, Int J Numer Anal Methods Geomech **23**(4) 295-316 (Apr 1999), 11A498
Constitutive driver as a useful tool in soil plasticity, Adv Eng Software **30**(8) 511-528 (Aug 1999), 11A632
Determination of the plasticity index from flow index, Geotech Testing J **22**(2) 175-181 (Jun 1999), 11A633

266K. Dynamics

Discriminating ripple-fired explosions with high-frequency (> 16 Hz) data, Bull Seismol Soc Am **88**(4) 963-972 (Aug 1998), 2A748
Global test of a time-frequency small-event discriminant, Bull Seismol Soc Am **88**(4) 973-988 (Aug 1998), 2A749
Evaluation of factors and current approaches related to computerized design of tillage tools: A review, J Terramech **35**(2) 69-86 (Apr 1998), 2A1038
Properties and implications of dynamic rupture along a material interface, Bull Seismol Soc Am **88**(4) 1085-1094 (Aug 1998), 2A1458
Effects of lateral constraints and inertia on stress wave propagation in dry soil columns, Geotechnique **48**(4) 449-463 (Aug 1998), 3A664
Real time control of shaking table for soil-structure interaction simulation (Japanese), Proc JSCE **598**(I-44) 203-210 (Jul 1998), 3A668
Experience with the use of methylcellulose as a viscous pore fluid in centrifuge models, Geotech Testing J **21**(4) 365-369 (Dec 1998), 5A589

Modeling of pile wave barriers by effective trenches and their screening effectiveness, Soil Dyn Earthquake Eng **18**(1) 1-10 (Jan 1998), 6A191
Wave propagation-impediment in a soil stratum over rigid base due to impulse-moving loads (Japanese), Proc JSCE **605**(I-45) 161-169 (Oct 1998), 6A737
Soil dynamics and earthquake engineering, Soil Dyn Earthquake Eng **17**(7-8) 415-578 (Oct-Dec 1998), 6T1499
Variability of seismic response of soils using stochastic FEM, Soil Dyn Earthquake Eng **18**(3) 229-245 (Apr 1999), 7A25
Dynamic instability of clays: An energy approach, Soil Dyn Earthquake Eng **18**(2) 125-133 (Feb 1999), 7A627
Numerical simulation of transient waves in a heterogeneous soil layer, Comput Mech **23**(1) 75-86 (Feb 1999), 9A754
Rigorous landslide hazard zonation using Newmark's method and stochastic ground motion simulation, Soil Dyn Earthquake Eng **18**(4) 305-323 (Jun 1999), 10A1549
Wave propagation in saturated ground using the volume fractions, Acta Mech Solida Sinica **12**(2) 144-153 (Jun 1999), 12A187
Forced vibrations of laterally loaded piles, Int J Solids Struct **36**(33) 4975-4989 (Nov 1999), 12A701

266L. Frost and permafrost

Factors of occurrence of frost damage (Japanese), Proc JSCE **602**(VI-40) 93-105 (Sep 1998), 5T590

266Y. Computational techniques

Advancements and improvement in discontinuous deformation analysis, Comput Geotech **22**(2) 153-163 (1998), 1A757
Advances in Civil and Structural Engineering Computing for Practice (Civil-Comp, Edinburgh, UK, 1998) 3N17
Effect of berms on sheet-pile wall behavior, Geotechnique **48**(4) 569-574 (Aug 1998), 3A665
Solving coupled thermo-hydromechanical problems in unsaturated soil using a substructuring-frontal technique, Commun Numer Methods Eng **14**(8) 783-792 (Aug 1998), 3A666
Stochastic FEMs for the seismic response of soils, Int J Numer Anal Methods Geomech **22**(10) 819-850 (Oct 1998), 4A693
Numerical Modelling in Applied Geodynamics (Wiley, UK, 1998) 6R38
Effects of sampler design on tube sampling disturbance: Numerical and analytical investigations, Geotechnique **48**(6) 847-867 (Dec 1998), 6A738
Numerical model of ground deformation induced by single well pumping, Comput Geotech **23**(1-2) 39-60 (1998), 6A775
Finite element method and constitutive modeling and computation for unsaturated soils, Comput Methods Appl Mech Eng **169**(1-2) 135-159 (Jan 1999), 7A628
Finite Element Analysis in Geotechnical Engineering: Theory (Telford, UK, 1999) 9R22
Stabilized FEs with equal order of interpolation for soil dynamics problems, Arch Comput Methods Eng **6**(1) 3-33 (1999), 10A774
Analysis of the vane test considering size and time effects, Int J Numer Anal Methods Geomech **23**(5) 383-412 (Apr 1999), 11A634
Discrete element method simulation of granular media - Structure interface: Effects of surface roughness and particle shape, Int J Numer Anal Methods Geomech **23**(6) 531-547 (May 1999), 11A635
Mechanics of Granular Materials: Introduction (Balkema, Rotterdam, Netherlands, 1999) 12N19
Geomechanics, Int J Solids Struct **36**(31-32) 4699-4974 (Nov 1999), 12A691
Triaxial compression behavior of sand and gravel using artificial neural networks, Comput Geotech **24**(3) 207-230 (1999), 12A694
Particle-in-cell solution to the silo discharging problem, Int J Numer Methods Eng **45**(9) 1203-1225 (Jul 1999), 12A696

266Z. Experimental techniques

Structural changes in Loesses under loading (Polish), Hydro-Tech Transactions **61** 3-10 (1997), 1A742
Application of bender elements in measuring G_{max} of sand under K_o condition, Geotech Testing J **21**(3) 251-263 (Sep 1998), 2A750
Behavior of anthropogenic soils subjected to vibration loadings, J Theor Appl Mech **36**(2) 241-247 (1998), 2A751
Evaluation of surface-related phenomena using sedimentation tests, Geotech Testing J **21**(3) 180-184 (Sep 1998), 2A752
Evaluation tests for colloidal silica for use in grouting applications, Geotech Testing J **21**(3) 264-269 (Sep 1998), 2A753
Laboratory modeling of inclined-loaded shafts in sand, Geotech Testing J **21**(3) 203-212 (Sep 1998), 2A754
Model tests for uplift resistance of piles in sand, Geotech Testing J **21**(3) 213-221 (Sep 1998), 2A755
T chart to evaluate consolidation test results, Geotech Testing J **21**(3) 270-274 (Sep 1998), 2A756
Model testing of closely spaced tunnels in clay, Geotechnique **48**(3) 375-388 (Jun 1998), 2A983
Image analysis determination of stereology based fabric tensors, Geotechnique **48**(4) 515-525 (Aug 1998), 3A667
Real time control of shaking table for soil-structure interaction simulation (Japanese), Proc JSCE **598**(I-44) 203-210 (Jul 1998), 3A668
Analysis of self-boring pressuremeter tests in overconsolidated clays, Geotechnique **48**(5) 689-693 (Oct 1998), 4T694
Chamber studies of the effects of pressuremeter geometry on test results in sand, Geotechnique **48**(5) 621-636 (Oct 1998), 4A695
Numerical analysis of the miniature piezocone penetration tests in cohesive soils, Int J Numer Anal Methods Geomech **22**(10) 791-818 (Oct 1998), 4A696
Geotechnical Site Characterization (Balkema, Rotterdam, Netherlands, 1998) 5N23
Experimental analysis on the use of fly ash to improve soil quality (Japanese), Proc JSCE **603**(III-44) 77-88 (Sep 1998), 5A583
New apparatus for measuring oxygen diffusion and water retention in soils, Geotech Testing J **21**(4) 289-296 (Dec 1998), 5A591
Prediction of field compressibility from laboratory consolidation tests of peats and organic soils, Geotech Testing J **21**(4) 297-306 (Dec 1998), 5A592
Centrifuge testing of vertically loaded battered pile groups in sand, Geotech Testing J **21**(4) 281-288 (Dec 1998), 5A611
Drum centrifuge study of three-leg jackup models on clay, Geotechnique **48**(6) 761-785 (Dec 1998), 6A729
Centrifuge model tests on doubly propped embedded retaining walls in overconsolidated kaolin clay, Geotechnique **48**(6) 833-846 (Dec 1998), 6A730
Effects of sampler design on tube sampling disturbance: Numerical and analytical investigations, Geotechnique **48**(6) 847-867 (Dec 1998), 6A738
Influence of procedural variables on the gradient ratio test, Geotech Testing J **22**(1) 22-31 (Mar 1999), 8A686
Shear banding in a sedimentary soft mudstone subjected to plane strain compression, Geotech Testing J **22**(1) 67-79 (Mar 1999), 8A687
Fundamental study on new test method for absorption of fine aggregate by electric resistance (Japanese), Proc JSCE **613**(V-42) 137-146 (Feb 1999), 10A775
Nonhomogeneity of the physical-mechanical properties of soil medium composed of tertiary clays and quaternary loesses, J Theor Appl Mech **36**(3) 581-595 (1998), 10T776
Development of a simplified simple shear apparatus and its application to various liquefaction tests (Japanese), Proc JSCE **617**(III-46) 299-304 (Mar 1999), 11A636
Estimation of reinforce effect in geonet replacement method and its design and field management (Japanese), Proc JSCE **616**(VI-42) 51-62 (Mar 1999), 11A637
New control method of uniformity of compaction of noncohesive soil (Polish), Inzynieria Budownictwo **55**(4) 218-220 (1999), 11A638
Preparation of epoxy impregnated sand coupons for image analysis, Geotech Testing J **22**(2) 153-164 (Jun 1999), 11A639
Quality evaluation of deep conglomerate core samples based on laboratory tests (Japanese), Proc JSCE **617**(III-46) 77-87 (Mar 1999), 11A640
Slag and sand composition as subsoil for building foundation (Polish), Inzynieria Budownictwo **54**(11) 644-646 (1998), 11A641
Complex permittivity measurement system for undisturbed-compacted soils, Geotech Testing J **22**(2) 165-174 (Jun 1999), 11A665
California bearing ratio test simplified, J Test Eval **27**(1) 72-75 (Jan 1999), 12A697
Performance of mini-triaxial test and its practical applications to soil investigation, Int J Offshore Polar Eng **9**(2) 105-111 (Jun 1999), 12A698

268. SOIL MECHANICS (APPLIED)

268B. Shallow foundations

Model tests of shallow foundations stability under static and cyclic load, Arch Hydro-Eng Env Mech **43**(1-4) 3-20 (1996), 1A743
Bearing capacity analysis of reinforced foundations on cohesive soil, Geotextiles Geomembranes **16**(4) 195-206 (Aug 1998), 4A697
Combined loading of skirted foundations, Geotechnique **48**(5) 637-655 (Oct 1998), 4A698
Elastic settlement and rotation of rectangular footings on non-homogeneous soil, Geotechnique **48**(5) 703-707 (Oct 1998), 4T699
Simplified recurrence method in frequency subdomain for calculating the dynamic flexibility of complex soil foundation (Chinese), Chinese J Comput Mech **15**(4) 429-436 (Nov 1998), 5T593
Use of artificial light weight materials (Treated soil with air form) for port facilities (Japanese), Proc JSCE **602**(VI-40) 35-52 (Sep 1998), 5A594
Modeling of soil and brick masonry structure interaction due to ground movement (Chinese), J China Univ Mining Tech **27**(4) 335-339 (1998), 6A739
Horizontal impedance of square foundation in layered soil, Soil Dyn Earthquake Eng **18**(1) 59-69 (Jan 1998), 6A1490
Effective width rule in calculations of bearing capacity of shallow footings, Comput Geotech **23**(4) 237-253 (1998), 7A629
Relationship between bearing capacity and depth of soft layer of paddy fields in South China, J Terramech **35**(4) 225-228 (Oct 1998), 7A630
Dynamic response analysis of the machine foundations on a nonhomogeneous soil layer, Comput Geotech **24**(2) 141-153 (1999), 9A755
Application of Numerical Methods to Geotechnical Problems (Springer-Verlag, Vienna, 1998) 10N16
Model scale experiments to determine bending moments of beams resting on sand, Geotechnique **49**(2) 267-272 (Apr 1999), 10A671
Performance of an oscillating subsoiler in breaking a hardpan, J Terramech **36**(2) 117-125 (Apr 1999), 10T777
Bearing capacity improvement by wrapping a part of foundation (Japanese), Proc JSCE **617**(III-46) 235-249 (Mar 1999), 11A642
Biochemical weathering of the Neogene mudstone and its damages to foundations (Japanese), Proc JSCE **617**(III-46) 213-224 (Mar 1999), 11T643
Problematic Soils (Balkema, Rotterdam, Netherlands, 1998) 12N21
Soil Mechanics and Geotechnical Engineering, Eleventh Asian Regional Conference, Volume 1 (Balkema, Rotterdam, Netherlands, 1999) 12N22
Function of the rheological soil strain under the foot supporting the crane, Arch Budowy Maszyn **46**(1) 5-18 (1999), 12T699

268C. Deep foundation, piles

Modified T-Z model: A software for tension piles, Comput Struct **68**(6) 613-625 (Sep 1998), 1A744
Contribution to optimum design of piled rafts, Geotechnique **48**(3) 301-317 (Jun 1998), 2A757
Experimental modeling of the shaft capacity of grouted driven piles, Geotech Testing J **21**(3) 159-168 (Sep 1998), 2A758
Interpretation of lateral Statnamic load test results, Geotech Testing J **21**(3) 169-179 (Sep 1998), 2A759
Prediction of paddy soil normal adhesion to steel surfaces by fuzzy logic, J Terramech **35**(2) 103-107 (Apr 1998), 2A760
Stabilization of an earth dam using driven prestressed concrete piles, J Earthquake Eng **2**(2) 173-195 (Apr 1998), 2A761
Simplified method for calculating horizontal dynamic impedances of pile groups in layered media (Chinese), J Vib Eng **11**(3) 258-264 (Sep 1998), 3A669
Analysis of piled rafts, Int J Numer Anal Methods Geomech **22**(10) 777-790 (Oct 1998), 4A700
Case history on the penetration of caisson-type foundations into seabed by use of suction force (Japanese), Proc JSCE **603**(III-44) 21-34 (Sep 1998), 5A595
Experimental examination to a characteristic of rubble is used in the foundation mound for a caisson type breakwater (Japanese), Proc JSCE **602**(VI-40) 67-74 (Sep 1998), 5T596
Nonlinear p-y spring models of a pile loaded by lateral soil movements (Japanese), Proc JSCE **603**(III-44) 67-76 (Sep 1998), 5A597
Standard settlement characteristic of pile (Japanese), Proc JSCE **603**(III-44) 45-52 (Sep 1998), 5A598
Study on the dimension control for a new jet grout forepiling (Japanese), Proc JSCE **602**(VI-40) 145-149 (Sep 1998), 5T599
Application of integrity tests for quality control of cast-in-situ piles (Japanese), Proc JSCE **603**(III-44) 139-146 (Sep 1998), 5T610
Analysis of stone-column reinforced foundations, Int J Numer Anal Methods Geomech **22**(12) 1001-1020 (Dec 1998), 6A740
Development of a new inspection method for concrete piles damaged due to earthquakes by acoustic emission waves from damaged portions (Japanese), Proc JSCE **605**(I-45) 61-77 (Oct 1998), 6A741
Discussion on external force of lateral flow on in-ground duct and supporting pile (Japanese), Proc JSCE **605**(I-45) 187-202 (Oct 1998), 6A742
Experimental study on bond of anchor pipe with ribs embedded in the caisson type foundation (Japanese), Proc JSCE **606**(V-41) 129-140 (Nov 1998), 6A743
Numerical analysis on anchorage performance of pipes with ribs embedded in the caisson type foundation (Japanese), Proc JSCE **606**(V-41) 141-149 (Nov 1998), 6A744
Rationality of load transfer approach for pile analysis, Comput Geotech **23**(1-2) 85-112 (1998), 6A745
Study on seismic resistance of steel pipe pier made of two different sections (Japanese), Proc JSCE **605**(I-45) 117-127 (Oct 1998), 6A1500
Construction of open-ended steel pipe piles in diatomaceous mudstone and prediction of load-displacement relations by dynamic load testing (Japanese), Proc JSCE **610**(III45) 1-18 (Dec 1998), 7A631
Optimality criteria for borehole location design in the estimation of pile tip levels (Japanes), Proc JSCE **610**(III45) 43-55 (Dec 1998), 7A632
Study of pile groups deformations on softening of the soils near pile shaft (Chinese), J Shanghai Jiaotong Univ **32**(11) 102-104 (Nov 1998), 7A633
Study on horizontal plastic ground reaction of pier foundation with inclined loads (Japanese), Proc JSCE **610**(III45) 69-82 (Dec 1998), 7A634
Ground deformations and stress redistribution due to a reduction in volume of zones of soil at depth, Geotechnique **49**(1) 111-126 (Feb 1999), 9A756
Method for the analysis of large vertically loaded pile groups, Int J Numer Anal Methods Geomech **23**(3) 243-262 (Mar 1999), 9A757
Application of Numerical Methods to Geotechnical Problems (Springer-Verlag, Vienna, 1998) 10N16
Design of pile-supported buried pipelines by a synthesis of FE ultimate load analyses and experimental investigations, Finite Elements Anal Des **32**(2) 97-111 (Apr 1999), 10A53
Efficient approach for settlement prediction of pile groups, Geotechnique **49**(2) 161-179 (Apr 1999), 10A770
Application of sensitivity theory to analysis of piles subject to bending and penetrating a homogeneous soil, Arch Civil Eng **44**(3) 299-314 (1998), 10A778
Investigation of effect of variable length of piles during bending-sensitivity analysis, Arch Civil Eng **44**(3) 315-337 (1998), 10A779
Stability of uniform-friction piles in homogeneous and non-homogeneous elastic foundations, Int J Solids Struct **36**(22) 3277-3292 (Aug 1999), 10A780
Variational solution for vertically loaded pile groups in an elastic half-space, Geotechnique **49**(2) 199-213 (Apr 1999), 10A781
Net pressure analysis of cantilever sheet pile walls, Geotechnique **49**(2) 231-245 (Apr 1999), 10A786
Computation of the lateral bearing capacity of foundation piles used for electric traction poles (Polish), Inzynieria Budownictwo **54**(11) 626-629 (1998), 11T644
Evaluation of the deformation characteristics on weathered granite for large-scale bridge foundation (Japanese), Proc JSCE **617**(III-46) 19-29 (Mar 1999), 11T645
Geotechnical analysis of skin friction of cast-in-place piles related to critical state friction angle (Japanese), Proc JSCE **617**(III-46) 89-100 (Mar 1999), 11A646
Investigation of bearing capacity and settlement of bored piles (Polish), Inzynieria Budownictwo **54**(11) 629-632 (1998), 11T647
Plastic analysis of a laterally loaded pile shaft embedded in noncohesive soil, J Struct Eng (India) **25**(2) 109-116 (Jul 1998), 11A648
Practical values of pile shortening (Polish), Inzynieria Budownictwo **54**(11) 620-622 (1998), 11T649
Finite element analysis of short piles in expansive soils, Comput Geotech **24**(3) 231-243 (1999), 12A700
Forced vibrations of laterally loaded piles, Int J Solids Struct **36**(33) 4975-4989 (Nov 1999), 12A701
Selection of load-transfer functions for passive lateral loading of pile groups, Comput Geotech **24**(3) 155-184 (1999), 12A702

268D. Machine foundations

Efficient FE techniques for limit analysis of suction caissons under lateral loads, Comput Geotech **24**(2) 89-107 (1999), 9A758

268E. Anchoring

Enhancement of improved trial wedge method for nonlinear slide problems (Japanese), Proc JSCE **602**(VI-40) 151-156 (Sep 1998), 5A600
Limit loads for an anchor-trapdoor embedded in an associative Coulomb soil, Int J Numer Anal Methods Geomech **22**(11) 855-865 (Nov 1998), 5A601
Numerical analysis on anchorage performance of pipes with ribs embedded in the caisson type

foundation (Japanese), Proc JSCE **606**(V-41) 141-149 (Nov 1998), 6A744
Experimental study on anchorage method of footing for power transmission tower using embedded steel anchor (Japanese), Proc JSCE **606**(V-41) 111-128 (Nov 1998), 6A746
Investigation on the effectiveness of steel anchor plate-reinforced embankment on soft ground (Japanese), Proc JSCE **609**(VI41) 137-150 (Dec 1998), 7A635
Changes in interface stresses during pullout tests on geogrid strip reinforcement, Geotech Testing J **22**(1) 32-38 (Mar 1999), 8A688
Behavior of drag anchors in layered soils, Int J Offshore Polar Eng **9**(1) 73-78 (Mar 1999), 10A782
Multi-mode piezomotor using a flextensional coupler, Smart Mat Struct **8**(2) 167-174 (Apr 1999), 10A783

268F. Stability

Critical assessment of the research conducted at the hydraulics and erosion control laboratory: A focus on rolled erosion control systems applied to hillslopes, Geotextiles Geomembranes **16**(2) 87-118 (Apr 1998), 1T745
Safety analysis using FEs, Comput Geotech **22**(2) 165-181 (1998), 1A746
Variational displacement method for geosynthetically reinforced slope stability analysis - I: Local stability, Geotextiles Geomembranes **16**(1) 1-25 (Feb 1998), 1A752
Variational displacement method for geosynthetically reinforced slope stability analysis - II: Global stability, Geotextiles Geomembranes **16**(1) 27-44 (Feb 1998), 1A753
Fuzzy clustering of paddy field soils in South China, J Terramech **35**(1) 21-24 (Jan 1998), 2A745
Earthquake destructiveness potential factor and slope stability, Geotechnique **48**(3) 411-419 (Jun 1998), 2T1453
Enhancement of improved trial wedge method for nonlinear slide problems (Japanese), Proc JSCE **602**(VI-40) 151-156 (Sep 1998), 5A600
Stability analysis of jointed rock slope, Mech Res Commun **25**(6) 661-670 (Nov-Dec 1998), 5A602
Limit analysis in stability calculations of reinforced soil structures, Geotextiles Geomembranes **16**(6) 311-331 (Dec 1998), 6A747
Soil reinforcement for seismic design of geotechnical structures, Comput Geotech **23**(1-2) 1-17 (1998), 6A748
Numerical modeling of strain localization in dense sands, Acta Polytech Scand Civil Eng Build **0**(113) 7-269 (1999), 7A625
Dynamic instability of clays: An energy approach, Soil Dyn Earthquake Eng **18**(2) 125-133 (Feb 1999), 7A627
Effects of horizontal drains on slope stability under rainfall by 3D FE analysis, Comput Geotech **23**(4) 255-275 (1998), 7A636
Evaluation method introducing the ground characteristics for the hazardous slope affected by the erosive collapse (Japanese), Proc JSCE **609**(VI41) 123-136 (Dec 1998), 7A637
Effect of infiltration on the stability of the slopes of a dry ash dump, Geotechnique **49**(1) 1-13 (Feb 1999), 9A759
Application of Numerical Methods to Geotechnical Problems (Springer-Verlag, Vienna, 1998) 10N16
Analytical method for analysis of slope stability, Int J Numer Anal Methods Geomech **23**(5) 439-449 (Apr 1999), 11A650
General stability of 2D slopes based on Sarma's method, Int J Numer Anal Methods Geomech **23**(5) 413-426 (Apr 1999), 11A651
Leaning Tower of Piza: A summary of the present situation (Polish), Inzynieria Budownictwo **54**(11) 605-613 (1998), 11T652
Modeling of submarine landslides of rock and soil, Int J Numer Anal Methods Geomech **23**(4) 335-354 (Apr 1999), 11A653
System for forecasting cut-off slope collapse during heavy rain and evaluation of rainfall factors based on neural network (Japanese), Proc JSCE **616**(VI-42) 63-76 (Mar 1999), 11A654
Variational evolution problems and nonlocal geometric motion, Arch Rational Mech Anal **146**(3) 221-274 (1999), 12A703

268G. Earth dams and embankments

Safety analysis using FEs, Comput Geotech **22**(2) 165-181 (1998), 1A746
Geotextile friction mobilization during field pullout test, Geotextiles Geomembranes **16**(2) 73-85 (Apr 1998), 1A748
Stabilization of an earth dam using driven prestressed concrete piles, J Earthquake Eng **2**(2) 173-195 (Apr 1998), 2A761
Theoretical analysis of centrifugal model tests on reinforced earth structures, Geotechnique **48**(4) 563-567 (Aug 1998), 3A670
Backanalyses of geosynthetic reinforced embankments on soft soils, Geotextiles Geomembranes **16**(5) 273-292 (Oct 1998), 4A701
Nonlinear seismic response of concrete gravity dams with dam-reservoir interaction, Eng Struct **21**(4) 306-315 (Apr 1999), 5A38
Stability analysis of jointed rock slope, Mech Res Commun **25**(6) 661-670 (Nov-Dec 1998), 5A602
Phenomenological two-parameter model for dynamic dam-reservoir interaction, J Earthquake Eng **2**(4) 513-524 (Oct 1998), 5A603
Problem of an earth dam, J Appl Math Mech **62**(3) 477-478 (1998), 5A604
Numerical simulation of scaled retaining walls by rigid-plastic approach, Comput Geotech **23**(1-2) 113-129 (1998), 6A776
Effects of backfill on the performance of GRS retaining walls, Geotextiles Geomembranes **17**(1) 1-16 (Feb 1999), 7A638
Finite element analysis of reinforced embankment foundation, Int J Numer Anal Methods Geomech **23**(2) 103-114 (Feb 1999), 7A639
Creep of geosynthetic reinforced soil retaining walls, Geotextiles Geomembranes **17**(1) 51-65 (Feb 1999), 7A643
Research on hydrodynamic interaction of concrete face rockfill dams and water systems (Chinese), J Dalian Univ Tech **38**(6) 717-723 (Nov 1998), 8A1508
Force-displacement compatibility for reinforced embankments over soft clay, Geotextiles Geomembranes **17**(3) 147-156 (Jun 1999), 10A784
Reinforced embankments over soft foundations under undrained and partially drained conditions, Geotextiles Geomembranes **17**(3) 129-146 (Jun 1999), 10A785
Lateral movement of highly organic soft ground during embankment construction (Japanese), Proc JSCE **617**(III-46) 65-76 (Mar 1999), 11A655
Deep Foundations on Bored and Auger Piles - BAP III (Balkema, Rotterdam, Netherlands, 1998) 12N15

268H. Lateral earth pressures

Coupled wellbore erosion and stability analysis, Int J Numer Anal Methods Geomech **22**(9) 749-769 (Sep 1998), 3A671
Retaining wall with reinforced backfill: A case study, Geotextiles Geomembranes **16**(3) 135-149 (Jun 1998), 3A679
Developments in the mechanics of reinforced soil: Empirical background and analytical approaches, Appl Mech Rev **51**(11) 651-668 (Nov 1998), 5A579
Effects of backfill on the performance of GRS retaining walls, Geotextiles Geomembranes **17**(1) 1-16 (Feb 1999), 7A638
Net pressure analysis of cantilever sheet pile walls, Geotechnique **49**(2) 231-245 (Apr 1999), 10A786

268I. Excavating and tunneling

Parametric study of a braced cut by FEM, Comput Geotech **22**(2) 91-107 (1998), 1A747
Sinking of ground water level by menas of casual riser drainage (Polish), Inzynieria Budownictwo **54**(3) 160-164 (1998), 2T762
Filling of dragline buckets, Math Eng Industry **7**(1) 1-24 (1998), 4A702
Finite element analysis of general contact problems and application for excavation of shield tunnel (Japanese), Proc JSCE **603**(III-44) 1-10 (Sep 1998), 5A30
Application of the new pre-lining support method to a tunnelling work (Japanese), Proc JSCE **602**(VI-40) 21-34 (Sep 1998), 5T605
Soil-structure interaction in shield tunneling in soft soil, Comput Geotech **22**(3-4) 221-242 (1998), 5A606
Specific energy of a hard-rock tunneller and rock properties (Japanese), Proc JSCE **603**(III-44) 89-100 (Sep 1998), 5A607
Tunnel support mechanism of shotcreting (Japanese), Proc JSCE **603**(III-44) 11-20 (Sep 1998), 5A805
Comparison of elastic-plastic soil models for 2D FE analyses of tunneling, Comput Geotech **23**(1-2) 19-38 (1998), 6A724
Assessment of ease of excavation of surface mines, J Terramech **35**(3) 137-153 (Jul 1998), 6A749
Computational model for the simulation of the shield tunneling process in cohesive soils, Int J Numer Anal Methods Geomech **23**(1) 23-44 (Jan 1999), 6A750
Deformations induced by tunneling operations (French), Geotechnique **48**(6) 801-818 (Dec 1998), 6A751
Face stability of shallow circular tunnels driven under the water table: A numerical analysis, Int J Numer Anal Methods Geomech **23**(1) 79-95 (Jan 1999), 6A752
Key block analysis during excavation of underground rock cavern (Japanese), Proc JSCE **609**(VI41) 73-85 (Dec 1998), 7A640
Development of quantitative evaluation method for underground methane gas using BAT system (Japanese), Proc JSCE **609**(VI41) 111-121 (Dec 1998), 7T645
Analytical solutions for stresses and displacements around tunnels driven in cross-anisotropic rocks, Int J Numer Anal Methods Geomech **23**(2) 161-177 (Mar 1999), 7A652
Parameter estimation using extended Bayesian method in tunneling, Comput Geotech **24**(2) 109-124 (1999), 9A760
Development and interpretation of the Self-Borning In situ Friction Test (Japanese), Proc JSCE **617**(III-46) 191-200 (Mar 1999), 11A656
Effects of a skew angle of a roller cutter bit of tunnel boring machine on the excavation and wear characteristics (Japanese), Proc JSCE **617**(III-46) 163-174 (Mar 1999), 11T657
Influence of distance between points in observation lines on the values of horizontal deformation calculated from measurements (Polish), Arch Gornictwa **43**(2) 315-335 (1998), 11A658
Nonlinear theory for forecasting mining extraction influences on land surface in light of geodesic measurements (Polish), Arch Gornictwa **43**(1) 55-83 (1998), 11T659
Prediction of existence of keyblock in underground cavern excavation (Japanese), Proc JSCE **617**(III-46) 115-124 (Mar 1999), 11T660
Time dependent earth pressure behavior in supported excavation (Japanese), Proc JSCE **617**(III-46) 125-138 (Mar 1999), 11A661
Geotechnical Engineering for Transportation Infrastructure: Theory and Practice, Planning and Design, Construction and Maintenance, Volume 3 (Balkema, Rotterdam, Netherlands, 1999) 12N17

268J. Highways, runways, and railways

Efficient computational algorithms for forward and backward analysis of a dynamic pavement system, Comput Struct **69**(2) 255-263 (Oct 1998), 2A763
High resolution soil vehicle interaction modeling, Mech Struct Machines **26**(3) 305-318 (1998), 3A672
Durability assessment of geogrid-reinforced asphalt concrete, Geotextiles Geomembranes **16**(5) 257-271 (Oct 1998), 4A703
Back-calculation for structural parameters of pavement slab on Winkler and elastic solid subgrades, Proc JSCE **606**(V-41) 165-169 (Nov 1998), 6A753
Characteristics of surface profiles of an airport runway pavement (Japanese), Proc JSCE **606**(V-41) 43-51 (Nov 1998), 6T754
Current airport pavement technology and its systematization (Japanese), Proc JSCE **606**(V-41) 1-12 (Nov 1998), 6A755
Development of a new data acquisition system for measuring absolute pavement surface profiles (Japanese), Proc JSCE **606**(V-41) 13-20 (Nov 1998), 6A756
Finite element method-boundary element method analysis of vibration of an enbankment track on layered soils for harmonic moving loads (Japanese), Proc JSCE **605**(I-45) 143-152 (Oct 1998), 6T757
Reinforcement evaluation of honeycomb grid panel on buried joint asphalt layer (Japanese), Proc JSCE **606**(V-41) 53-62 (Nov 1998), 6A758
Study on durability of porous pavement on bridge-decks by immersion wheel tracking test (Japanese), Proc JSCE **606**(V-41) 21-29 (Nov 1998), 6A1051
Practical use and verification tests of noise abatement due to absorptive devices at the top of highway noise barriers (Japanese), Proc JSCE **609**(VI41) 51-60 (Dec 1998), 7A315
Development of an all terrain vehicle suspension with an efficient, oval track, J Terramech **35**(4) 209-223 (Oct 1998), 7A870
Kinematics simulation as a method of determining deviations of switch blade positions in turnouts, Arch Civil Eng **44**(3) 339-351 (1998), 10A211
Study on analysis method for composite pavement based on elastic plate FEM (Japanese), Proc JSCE **613**(V-42) 237-247 (Feb 1999), 10A621
Evaluation and urgent repair method for earthquake-induced distress of airport asphalt pavements (Japanese), Proc JSCE **613**(V-42) 211-223 (Feb 1999), 10T787
Experimental study on the effects of water supplied permeable pavements on the thermal mitigation in summer (Japanese), Proc JSCE **613**(V-42) 225-236 (Feb 1999), 10T788
Shear strength properties between asphalt pavements layers, Arch Civil Eng **44**(3) 353-366 (1998), 10A789
Structural design of airport asphalt pavements with high groundwater level (Japanese), Proc JSCE **613**(V-42) 19-30 (Feb 1999), 10A790
Sensor installation in rigid pavement, Exp Tech **23**(3) 25-27 (May-Jun 1999), 11T669
Geotechnical Engineering for Transportation Infrastructure: Theory and Practice, Planning and Design, Construction and Maintenance, Volume 3 (Balkema, Rotterdam, Netherlands, 1999) 12N17
Equivalence between track mechanical and non-uniform thermal load and between linear and nonlinear track behavior, Arch Civil Eng **44**(4) 475-490 (1998), 12A704
Geotechnical aspect of regionalized variable - Case Study: The Rijeka-Zagreb-Budapest highway, Stud Geotech Mech **20**(3-4) 29-38 (1998), 12T705

268K. Trafficability

Evaluation of an empirical traction equation for forestry tires, J Terramech **35**(1) 55-67 (Jan 1998), 2A992
Experimental analysis of soil reaction on a lug of a movable lug wheel, J Terramech **35**(2) 119-135 (Apr 1998), 2A993
Stability criteria for tractor-implement operation on slopes, J Terramech **35**(1) 1-19 (Jan 1998), 2A994
General absorbing boundary conditions for dynamic analysis of fluid-saturated porous media, Soil Dyn Earthquake Eng **17**(6) 397-406 (Aug 1998), 3A223
Method for determining the groups of road segments to be simultaneously constructed, the priority between them and construction pattern considering the disutility under construction (Japanese), Proc JSCE **604**(IV-41) 1-10 (Oct 1998), 6A759
Traction data analysis in reference to a unique zero condition, J Terramech **35**(3) 179-188 (Jul 1998), 6A760
Design and traction performance of the movable lug wheel, J Terramech **35**(3) 159-177 (Jul 1998), 6A1062
Effect of velocity on rigid wheel performance, J Terramech **35**(3) 189-207 (Jul 1998), 6A1063
Evaluation of the concept of rolling resistance, J Terramech **36**(3) 159-166 (Jul 1999), 12A949

268L. Mechanical and chemical stabilization, incl geotextiles

Geotextile friction mobilization during field pullout test, Geotextiles Geomembranes **16**(2) 73-85 (Apr 1998), 1A748
Pullout and shear tests on geogrid reinforced lightweight aggregate, Geotextiles Geomembranes **16**(2) 119-133 (Apr 1998), 1A749
Shear strength properties of geomembrane-geotextile interfaces, Geotextiles Geomembranes **16**(1) 45-71 (Feb 1998), 1A750
Tenth GRI conference field performance of geosynthetics and geosynthetic related systems, Geotextiles Geomembranes **15**(4-6) 183-440 (Aug-Dec 1997), 1T751
Variational displacement method for geosynthetically reinforced slope stability analysis - I: Local stability, Geotextiles Geomembranes **16**(1) 1-25 (Feb 1998), 1A752
Variational displacement method for geosynthetically reinforced slope stability analysis - II: Global stability, Geotextiles Geomembranes **16**(1) 27-44 (Feb 1998), 1A753
Influence of a stabilizing platform on the performance of an embedded retaining wall: A FE study, Geotechnique **48**(3) 403-409 (Jun 1998), 2T764
Study on use of vibration to reduce soil adhesion, J Terramech **35**(2) 87-101 (Apr 1998), 2A765
Effects of vertical acceleration on seismic design of geosynthetic-reinforced soil structures, Geotechnique **48**(3) 347-373 (Jun 1998), 2A1467
Foundation on geogrid-reinforced sand: Effect of transient loading, Geotextiles Geomembranes **16**(3) 151-160 (Jun 1998), 3A673
Interpretation of transmissivity test data for geonets, Geosynthetics Int **5**(3) 265-285 (1998), 3A674
Investigation of the local strains in a geosynthetic composite, Geotextiles Geomembranes **16**(3) 175-193 (Jun 1998), 3A675
Methodology for the evaluation of geotextile pore opening sizes under confining pressure, Geosynthetics Int **5**(3) 347-357 (1998), 3A676
Modeling of geosynthetic reinforcement in soil retaining walls, Geosynthetics Int **5**(3) 327-345 (1998), 3A677
Performance of protective cover systems for landfill geomembrane liners under long-term MSW loading, Geosynthetics Int **5**(3) 287-307 (1998), 3A678
Retaining wall with reinforced backfill: A case study, Geotextiles Geomembranes **16**(3) 135-149 (Jun 1998), 3A679
Sand-geotextile interface shear strength by torsional ring shear tests, Geotextiles Geomembranes **16**(3) 161-174 (Jun 1998), 3A680
Chemical resistivity of very low density polyethylene geomembranes: Sorption-desorption diffusion and swelling, Polymers and Polymer Composites **6**(4) 205-213 (1998), 3A1347

Bearing capacity analysis of reinforced foundations on cohesive soil, Geotextiles Geomembranes **16**(4) 195-206 (Aug 1998), 4A697

Creep and stress relaxation of geotextile-reinforced soils, Geosynthetics Int **5**(4) 425-434 (1998), 4A704

Field versus laboratory filtration performance of a nonwoven geotextile with fly ash, Geotextiles Geomembranes **16**(4) 247-255 (Aug 1998), 4A705

Geomembrane-sand interface frictional properties as determined by inclined board and shear box tests, Geotextiles Geomembranes **16**(4) 207-219 (Aug 1998), 4A706

Hydraulically-filled geomembrane bags for land reclamation, Geosynthetics Int **5**(4) 435-442 (1998), 4A707

Leachate flow mound equations for steady-state flow over a landfill geosynthetic bottom liner, Geosynthetics Int **5**(4) 383-397 (1998), 4A708

Pull-out resistance of polyester straps at low overburden stress, Geosynthetics Int **5**(4) 361-382 (1998), 4A709

Puncture resistance of pre-strained geotextiles and its relation to uniaxial tensile strain at failure, Geotextiles Geomembranes **16**(5) 293-302 (Oct 1998), 4A710

Qualitative criteria for anti-pumping geocomposites, Geotextiles Geomembranes **16**(4) 221-245 (Aug 1998), 4A711

Theoretical model for the pull-out response of geosynthetic reinforcement, Geosynthetics Int **5**(4) 399-424 (1998), 4A712

Use of geotextiles as filters in decanting wells of ash ponds, Geotextiles Geomembranes **16**(5) 303-310 (Oct 1998), 4A713

Analysis of geocell reinforced-soil covers over large span conduits, Comput Geotech **22**(3-4) 205-219 (1998), 5A608

Evaluation of thermal stress of the geomembrane at landfills (Japanese), Proc JSCE **603**(III-44) 147-155 (Sep 1998), 5A609

Limit analysis in stability calculations of reinforced soil structures, Geotextiles Geomembranes **16**(6) 311-331 (Dec 1998), 6A747

Basis for modelling creep and stress relaxation behavior of geogrids, Geosynthetics Int **5**(6) 637-645 (1998), 6A761

Chemical compatibility testing of geomembranes: Sorption-desorption, diffusion, permeation and swelling phenomena, Geotextiles Geomembranes **16**(6) 333-354 (Dec 1998), 6A762

Creep behavior of geosynthetics, Geotextiles Geomembranes **16**(6) 365-382 (Dec 1998), 6A763

Design methodology for a gas pressure relief layer below a geomembrane landfill cover to improve slope stability, Geosynthetics Int **5**(6) 589-617 (1998), 6A764

Dynamic and static characterization of polypropylene fiber-reinforced dune sand, Geosynthetics Int **5**(5) 443-458 (1998), 6A765

Effect of interface properties on retaining wall behavior, Int J Numer Anal Methods Geomech **22**(12) 1021-1033 (Dec 1998), 6A766

Effect of pH, resin properties, and manufacturing process on laboratory degradation of polyester geosynthetics, Geosynthetics Int **5**(5) 459-490 (1998), 6A767

Manufacturing effects on the hydraulic properties of needlepunched nonwoven geotextiles, Geotextiles Geomembranes **16**(6) 355-363 (Dec 1998), 6A768

Performance of geosynthetic-reinforced soil structures at limit equilibrium state, Geosynthetics Int **5**(6) 555-587 (1998), 6A769

Role of geotextile reinforcement in the control of pumping at the subgrade-subbase interface of highway pavements, Geosynthetics Int **5**(6) 619-636 (1998), 6A770

Study of biodegradable geotextiles used for erosion control, Geosynthetics Int **5**(5) 545-553 (1998), 6A771

Three-dimensional behavior of geosynthetic tubes, Thin-Walled Struct **32**(4) 263-274 (Dec 1998), 6A772

Unreinforced geosynthetic clay liner case history, Geosynthetics Int **5**(5) 521-544 (1998), 6A773

Analysis of geosynthetic lining systems undergoing large deformations, Geotextiles Geomembranes **17**(1) 17-32 (Feb 1999), 7A641

Behavior of composite soil reinforced with natural fibers, Cement & Concrete Composites **21**(1) 39-48 (1999), 7A642

Creep of geosynthetic reinforced soil retaining walls, Geotextiles Geomembranes **17**(1) 51-65 (Feb 1999), 7A643

Rheological model of geosynthetic-reinforced soil, Geotextiles Geomembranes **17**(1) 33-49 (Feb 1999), 7A644

Behavior of waves in high density polyethylene geomembranes: A laboratory study, Geotextiles Geomembranes **17**(2) 81-104 (Apr 1999), 8A212

Dynamic uniaxial wide strip tensile testing of two geotextiles in isolation, Geotextiles Geomembranes **17**(2) 67-79 (Apr 1999), 8A689

Overview of field installation procedures for paving fabrics in North America, Geotextiles Geomembranes **17**(2) 105-120 (Apr 1999), 8A690

Force-displacement compatibility for reinforced embankments over soft clay, Geotextiles Geomembranes **17**(3) 147-156 (Jun 1999), 10A784

Reinforced embankments over soft foundations under undrained and partially drained conditions, Geotextiles Geomembranes **17**(3) 129-146 (Jun 1999), 10A785

Behavior of sand confined with single and multiple geocells, Geotextiles Geomembranes **17**(3) 171-184 (Jun 1999), 10A791

Flexible polypropylene geomembrane case histories, Geotextiles Geomembranes **17**(3) 185-192 (Jun 1999), 10T792

Pull-out test analysis for geo-reinforcement, Geotextiles Geomembranes **17**(3) 157-170 (Jun 1999), 10A793

Effect of tensile stiffness for reinforcement material on tensile stress propagation in geosynthetic-reinforced soil wall (Japanese), Proc JSCE **617**(III-46) 151-161 (Mar 1999), 11A662

Examples of steep slopes reinforced with geotextiles with planted (Polish), Inzynieria Budownictwo **54**(11) 632-635 (1998), 11A663

Interaction between reinforced soil components, Stud Geotech Mech **20**(1-2) 43-61 (1998), 12A706

Method of estimating the stresses in soil reinforcement, Stud Geotech Mech **20**(1-2) 3-25 (1998), 12A707

Opening size determination of technical textiles used in agricultural applications, Geotextiles Geomembranes **17**(4) 231-245 (Aug 1999), 12A708

Properties of exhumed HDPE field waves, Geotextiles Geomembranes **17**(4) 247-261 (Aug 1999), 12A709

Railway rehabilitation geotextiles, Geotextiles Geomembranes **17**(4) 213-230 (Aug 1999), 12A710

268Y. Computational techniques

High resolution soil vehicle interaction modeling, Mech Struct Machines **26**(3) 305-318 (1998), 3A672

Analytical models for mooring chain-soil interaction, J Offshore Mech Arctic Eng **121**(1) 1-8 (Feb 1999), 5A540

Efficient solution of 3D geomechanical problems by indirect BEM using iterative methods, Int J Numer Anal Methods Geomech **22**(12) 983-100 (Dec 1998), 6A774

Numerical model of ground deformation induced by single well pumping, Comput Geotech **23**(1-2) 39-60 (1998), 6A775

Numerical simulation of scaled retaining walls by rigid-plastic approach, Comput Geotech **23**(1-2) 113-129 (1998), 6A776

Finite Element Analysis in Geotechnical Engineering: Theory (Telford, UK, 1999) 9R22

Dynamic Soil-Structure Interaction (Elsevier Sci BV, Netherlands, 1998) 10N18

Stabilized low-order FEs for failure and localization problems in undrained soils and foundations, Comput Methods Appl Mech Eng **174**(1-2) 219-234 (May 1999), 11A664

268Z. Field testing and sampling

Commentary on marchetti flat dilatometer correlations in soils, Geotech Testing J **21**(3) 222-239 (Sep 1998), 2A766

Methods for predicting shale durability in the field, Geotech Testing J **21**(3) 195-202 (Sep 1998), 2A767

Application of integrity tests for quality control of cast-in-situ piles (Japanese), Proc JSCE **603**(III-44) 139-146 (Sep 1998), 5T610

Centrifuge testing of vertically loaded battered pile groups in sand, Geotech Testing J **21**(4) 281-288 (Dec 1998), 5A611

Development of an axisymmetric field simulator for cone penetration tests in sand, Geotech Testing J **21**(4) 348-355 (Dec 1998), 5A612

Verification of evaluation for chemical grouted region using resistivity tomography by field test (Japanese), Proc JSCE **603**(III-44) 129-138 (Sep 1998), 5T613

Development of simplified testing method of adiabatic temperature rise for the use at sites (Japanese), Proc JSCE **606**(V-41) 103-110 (Nov 1998), 6A777

Development of quantitative evaluation method for underground methane gas using BAT system (Japanese), Proc JSCE **609**(VI41) 111-121 (Dec 1998), 7T645

Consolidation analysis with pore water pressure measurements, Geotechnique **49**(1) 127-132 (Feb 1999), 9T750

Analysis of a sample containing a shear surface from a recent landslip: South Cotswolds, UK, Geotechnique **49**(1) 33-41 (Feb 1999), 9A761

Complex permittivity measurement system for undisturbed-compacted soils, Geotech Testing J **22**(2) 165-174 (Jun 1999), 11A665

Estimation of the pore volume in rock mass by air vacuuming (Japanese), Proc JSCE **617**(III-46) 225-234 (Mar 1999), 11A666

Instrumentation of an unsaturated residual soil slope, Geotech Testing J **22**(2) 134-143 (Jun 1999), 11A667

New torsional shear device, Geotech Testing J **22**(2) 107-117 (Jun 1999), 11A668

Sensor installation in rigid pavement, Exp Tech **23**(3) 25-27 (May-Jun 1999), 11T669

California bearing ratio test simplified, J Test Eval **27**(1) 72-75 (Jan 1999), 12A697

Analysis of displacements of diaphgram wall built to protect deep excavations (Polish), Inzynieria Budownictwo **55**(6) 351-354 (1999), 12A711

Cooperation of large-diameter piles of increased lateral stiffness with subsoil (Polish), Inzynieria Budownictwo **55**(6) 347-350 (1999), 12A712

Evaluation of side wall friction for a buried pipe testing facility, Geotextiles Geomembranes **17**(4) 193-212 (Aug 1999), 12A713

270. ROCK MECHANICS

270A. General theory

Identifying the critical mechanisms for rock engineering design, Geotechnique **48**(3) 319-335 (Jun 1998), 2A768

Acoustic signatures of patchy saturation, Int J Solids Struct **35**(34-35) 4803-4810 (Dec 1998), 3A681

Engineering Rock Mechanics: An Introduction to the Principles (Elsevier Sci BV, Netherlands, 1997) 4R7

Mechanics of Jointed and Faulted Rock (Balkema, Rotterdam, Netherlands, 1998) 5N24

Energy-based damage model of geomaterials - I: Formulation and numerical results, Int J Solids Struct **36**(12) 1719-1734 (Apr 1999), 7A646

Energy-based damage model of geomaterials - II: Deduction of damage evolution laws, Int J Solids Struct **36**(12) 1735-1755 (Apr 1999), 7A647

Study on modeling the distribution of Lugeon values in rock mass (Japanese), Proc JSCE **610**(III45) 105-114 (Dec 1998), 7A648

Geotechnics of Hard Soils - Soft Rocks (Balkema, Rotterdam, Netherlands, 1998) 12N18

270B. Mechanical properties

Time Effects in Rock Mechanics (Wiley, UK, 1998) 5R16

Empirical Rock Failure Criteria (Balkema, Rotterdam, Netherlands, 1997) 5N21

Rock Stress (Balkema, Rotterdam, Netherlands, 1997) 5N31

Specific energy of a hard-rock tunneller and rock properties (Japanese), Proc JSCE **603**(III-44) 89-100 (Sep 1998), 5A607

Effect of chemical additives on the strength of rock (Japanese), Proc JSCE **603**(III-44) 157-166 (Sep 1998), 5T614

Comparisons of mechanical characteristics of weathered granites from two different sites (Japanese), Proc JSCE **610**(III45) 115-123 (Dec 1998), 7A649

Evaluation of porosity and saturation degree by laboratory joint measurements of velocity and resistivity: A model improvement, Pure Appl Geophys **154**(2) 211-255 (Apr 1999), 11A670

Influence of test methods on measured results of rock tensile strength (CHI), J China Univ Mining Tech **28**(3) 243-246 (1999), 11A671

Rheology of rock massive as a factor of sinergetic mechanism of geocatastrophe, Appl Mech Eng **4**(S) 33-37 (1999), 11T672

270D. Elasticity, viscoelasticity, plasticity

Poroelastic behavior of brittle rock materials with anisotropic damage, Mech Mat **30**(1) 41-53 (Sep 1998), 1A754

Time Effects in Rock Mechanics (Wiley, UK, 1998) 5R16

Three-dimensional elastoviscoplastic FE analysis of reinforced rock masses and its application, Int J Numer Anal Methods Geomech **23**(1) 61-78 (Jan 1999), 6A778

Non-associated elasto-viscoplastic models for rock salt, Int J Eng Sci **37**(3) 269-297 (Feb 1999), 7A650

State of stress and displacement in the face area of a shaft sunk in a rock mass with elastic properties, Arch Gornictwa **43**(3) 419-438 (1998), 12T714

270F. Anisotropy and nonhomogeneity

Poroelastic behavior of brittle rock materials with anisotropic damage, Mech Mat **30**(1) 41-53 (Sep 1998), 1A754

Modeling the effect of fluid communication on velocities in anisotropic porous rocks, Int J Solids Struct **35**(34-35) 4685-4707 (Dec 1998), 3A1428

Stress-dependent seismic anisotropy of shales, Geophys **64**(1) 93-98 (Jan-Feb 1999), 7A651

270G. Failure mechanisms

Continuum damage constitutive law for brittle rocks, Comput Geotech **22**(2) 135-151 (1998), 1A755

Failure design of jointed rock structures by means of a homogenization approach, Mech Cohesive-Frictional Mat **3**(3) 207-228 (Jul 1998), 1A756

Study on laws of rockmass breaking induced by mining (Chinese), J China Univ Mining Tech **27**(3) 261-264 (1998), 3A682

Examination of a rock failure criterion based on circumferential tensile strain, Pure Appl Geophys **152**(3) 551-577 (Oct 1998), 4A714

Application of computer-assisted tomography in the analysis of fracture geometry, Geotech Testing J **21**(4) 328-335 (Dec 1998), 5A615

Proposal and application of modeling of mechanical behavior of discontinuities in stability analysis of underground openings in rock mass (Japanese), Proc JSCE **603**(III-44) 53-66 (Sep 1998), 5T616

Damage and Failure of Interfaces (Balkema, Rotterdam, Netherlands, 1997) 6N21

Crack propagation and coalescence in brittle materials under compression, Eng Fracture Mech **61**(3-4) 311-324 (Sep-Nov 1998), 6A779

Model of rockburst for extension of slip fracture in palisades (Chinese), J China Univ Mining Tech **28**(2) 113-117 (1999), 9A762

Characterization of fractures in shallow granite from the modeling of the anisotropy and attenuation of seismic waves, Bull Seismol Soc Am **89**(3) 706-717 (Jun 1999), 11A673

Mixed mode rock fracture model for the prediction of crack path, Int J Numer Anal Methods Geomech **23**(4) 281-294 (Apr 1999), 11A674

Modified Mohr-Coulomb-type micromechanical failure criteria for layered rocks, Int J Numer Anal Methods Geomech **23**(5) 451-460 (Apr 1999), 11A675

Simulation of rock mass failure with discontinuous deformation analysis (Japanese), J Soc Mat Sci Japan **48**(4) 329-333 (Apr 1999), 12A715

270I. Rock strengthening (bolts, etc)

Law of rock strength weakening around roadway and its application (Chinese), J China Univ Mining Tech **28**(2) 133-135 (1999), 9A763

Effect of bolting-grouting reinforcement of integrity and quasi-strength of rock mass (CHI), J China Univ Mining Tech **28**(3) 221-224 (1999), 11A676

Regularity of deformation of rocks around roadway under mining influence and change of rockbolt resistance (CHI), J China Univ Mining Tech **28**(3) 201-203 (1999), 11A677

270J. Drilling

Analytical solutions for stresses and displacements around tunnels driven in cross-anisotropic rocks, Int J Numer Anal Methods Geomech **23**(2) 161-177 (Mar 1999), 7A652

Prediction of small drill bit breakage by wavelet transforms and linear discriminant functions, Int J Machine Tools Manuf **39**(9) 1471-1484 (Sep 1999), 11A448

270K. Comminution (blasting, grinding, etc)

Propagation characteristics of blast-induced shock waves in a jointed rock mass, Soil Dyn Earthquake Eng **17**(6) 407-412 (Aug 1998), 3A683

Neural network model for forecasting peak acceleration of blasting vibration (Chinese), J Beijing IT **18**(4) 472-475 (Aug 1998), 5A617

Study of blasting damage in rock mass (Japanese), Proc JSCE **602**(VI-40) 139-144 (Sep 1998), 5A618

270L. Excavations (tunneling, etc)

Geomechanics 96 (Balkema, Rotterdam, Netherlands, 1997) 5N22

Damage model for jointed rock mass and its application to tunneling, Comput Geotech **22**(3-4) 183-203 (1998), 5A619
Numerical simulation on roof and floor stability in longwall faces (Chinese), J China Univ Mining Tech **28**(1) 41-45 (1999), 7A653
Modeling of dense rock mining with disk tools with high-pressure water jet assistance (Polish), Arch Gornictwa **43**(1) 147-184 (1998), 11A678
Rock's rupture around a cavity, Arch Gornictwa **43**(4) 575-581 (1998), 11A679
State of stress and displacement in the face area of a shaft sunk in a rock mass with elastic properties, Arch Gornictwa **43**(3) 419-438 (1998), 12T714

270Y. Computational techniques

Failure design of jointed rock structures by means of a homogenization approach, Mech Cohesive-Frictional Mat **3**(3) 207-228 (Jul 1998), 1A756
Advancements and improvement in discontinuous deformation analysis, Comput Geotech **22**(2) 153-163 (1998), 1A757
Numerical procedure for the analysis of the hydromechanical coupling in fractured rock masses, Int J Numer Anal Methods Geomech **22**(11) 867-901 (Nov 1998), 5A620
Classification of surrounding rock of deepening roadway based on engineering geology and artificial neural network (Chinese), J China Univ Mining Tech **28**(1) 69-73 (1999), 7A654
Prediction system for Lugeon values in rock mass using neural network system (Japanese), Proc JSCE **616**(VI-42) 111-123 (Mar 1999), 11T680

270Z. Experimental techniques

Servohydraulically-controlled deformation apparatus for rock deformation under conditions of ultra-high pressure metamorphism, Pure Appl Geophys **152**(3) 579-606 (Oct 1998), 4A715
Imaging of rock fractures with low-frequency ultrasonic reflection-diffraction, Geotech Testing J **21**(4) 317-327 (Dec 1998), 5A621
Automatic measurement technique to permeability of coal and rock (Chinese), J China Univ Mining Tech **27**(4) 361-365 (1998), 6A780
Measurements and back analysis on the initial rock stress field around the faults (Chinese), J Shanghai Jiaotong Univ **32**(12) 55-59 (Dec 1998), 8A691

272. MATERIALS PROCESSING

272B. Applications of plasticity theory

New approach to viscoplasticity in plane-strain extrusion, J Mat Processing Tech **79**(1-3) 144-154 (Jul 1998), 1A582
Analytical approach for backward-extrusion forging of regular polygonal hollow components, Int J Mech Sci **40**(12) 1247-1263 (Dec 1998), 1A758
Flow and stresses in round-oval-round roll pass sequence, Int J Mech Sci **40**(12) 1223-1234 (Dec 1998), 1A759
Three-dimensional rigid-plastic FEM analysis of the rolling of a strip with local residual deformation, J Mat Processing Tech **79**(1-3) 109-112 (Jul 1998), 1A760
Alternative ring-test geometry for the evaluation of friction under low normal pressure, J Mat Processing Tech **79**(1-3) 14-24 (Jul 1998), 1A1064
Proceedings of the 7th International Conference on metal forming, J Mat Processing Tech **80-81** 1-712 (Aug-Sep 1998), 2A769
Study on the thermo-elastic-plastic cutting model for 3D tool with chip breaker, J Eng Mat Tech **120**(4) 265-274 (Oct 1998), 2A770
Algorithm of automatic local mesh subdivision and its application to FE analysis of a large deformation forming process, J Mat Processing Tech **83**(1-3) 164-169 (Nov 1998), 3A30
Finite-element analysis of the debinding and densification phenomena in the process of metal injection molding, J Mat Processing Tech **83**(1-3) 170-175 (Nov 1998), 3A37
Elastic-plastic analysis of tube bending, Int J Machine Tools Manuf **39**(1) 87-104 (Jan 1998), 3A529
Effective stress function algorithm for pressure-dependent plasticity applied to hot isostatic pressing, Int J Numer Methods Eng **43**(4) 587-606 (Oct 1998), 3A684
Numerical modeling of the metal blanking process, J Mat Processing Tech **83**(1-3) 192-199 (Nov 1998), 3A685
Plastic instability during tensile deformation of temper-annealed non-heat-treatable aluminium alloy sheets, J Mat Processing Tech **82**(1-3) 46-52 (Oct 1998), 3A686
Temperature rise in wire-drawing, J Mat Processing Tech **83**(1-3) 72-83 (Nov 1998), 3A687
FEM simulations and experimental analysis of parameters of influence in the blanking process, J Mat Processing Tech **84**(1-3) 97-106 (Dec 1998), 4A22
Analyses of forging processes by a rigid-plastic finite-BEM, J Mat Processing Tech **84**(1-3) 13-19 (Dec 1998), 4A716
Analysis of cold densification rolling of a sintered porous metal strip, J Mat Processing Tech **84**(1-3) 56-72 (Dec 1998), 4A717
Critical conditions of wrinkling in deep drawing at elevated temperature, J Mat Processing Tech **84**(1-3) 38-46 (Dec 1998), 4A718
Surface asperity deformation under bulk plastic straining conditions, Int J Mech Sci **41**(3) 283-307 (Mar 1999), 4A719
Metal Cutting Mechanics (CRC Press, Boca Raton FL, 1998) 6N24
Axisymmetric forging analyses by the rigid-plastic FBEM, J Mat Processing Tech **86**(1-3) 208-215 (Feb 1999), 6A781
Limiting drawing ratio for plastic instability of the cup-drawing process, J Mat Processing Tech **86**(1-3) 168-176 (Feb 1999), 6A782
Study of strain localization in the fine-blanking process using the large deformation FEM, J Mat Processing Tech **86**(1-3) 163-167 (Feb 1999), 6A783
Analysis of factors influencing accuracy in the drawing of round rods, J Mat Processing Tech **87**(1-3) 90-96 (Mar 1999), 7A655
Automatic remeshing of 2D quadrilateral elements and its application to continuous deformation simulation - Part I: Remeshing algorithm, J Mat Processing Tech **87**(1-3) 165-178 (Mar 1999), 7A656
Automatic remeshing of 2D quadrilateral elements and its application to continuous deformation simulation - Part II: Applications, J Mat Processing Tech **87**(1-3) 179-191 (Mar 1999), 7A657
Forging of helical gears - II: Comparisons of the forging processes, Int J Mech Sci **41**(6) 725-739 (Jun 1999), 7A658
Fundamental modeling for oblique cutting by thermo-elastic-plastic FEM, Int J Mech Sci **41**(8) 941-965 (Aug 1999), 7A659
Magnetohydrodynamics in materials processing, Annu Rev Fluid Mech **31** 273-300 (1999), 7A1109
Dot matrix hardening of steels using a fiber optic coupled pulsed Nd:YAG laser, Mat Manuf Processes **14**(1) 53-65 (1999), 8T722
Distortion of U-channel sections in plastic bending, J Manuf Sci Eng **121**(2) 208-213 (May 1999), 9A622
Die design model for thin section extrusions, Int J Mech Sci **41**(9) 1067-1088 (Sep 1999), 9A764
Axisymmetric tube extrusion through a smooth conical or cosine die and over a conical or ogival mandrel: Numerical construction of axisymmetric slip-line fields and associated velocity fields, Int J Mech Sci **41**(10) 1191-1215 (Oct 1999), 10A794
Optimum blank design in sheet metal forming by the deformation path iteration method, Int J Mech Sci **41**(10) 1217-1232 (Oct 1999), 10A795
Quasi-static and dynamic shearing of sheet metals, Eur J Mech A **18**(2) 271-289 (Mar-Apr 1999), 10A796
Improved properties of polymers under hydrostatic pressure, Mat Manuf Processes **14**(3) 427-433 (1999), 11T432
Study on the deformation of metals, J Mat Processing Tech **88**(1-3) 1-9 (Apr 1999), 11A490
Analysis of the shape rolling of a V-sectioned sheet by the dual-stream function method, J Mat Processing Tech **88**(1-3) 33-42 (Apr 1999), 11A681
Disc upsetting between spherical dies and its application to the determination of forming limit curves, J Strain Anal Eng Des **34**(1) 17-22 (Jan 1999), 11A682
Ductile fracture in fine-blanking process (Chinese), J Shanghai Jiaotong Univ **33**(2) 181-183 (Feb 1999), 11A683
Formability analysis of tube-hydroforming process, Appl Mech Eng **4**(1) 149-169 (1999), 11A684
Investigation into the plastic deformation behavior at the roll gap during plate rolling, J Mat Processing Tech **88**(1-3) 97-104 (Apr 1999), 11A685
Proceedings of the 4th Pacific Conference on Material Processing: Singapore May 19-20, 1999, J Mat Processing Tech **89-90** 1-591 (May 1999), 11T686
Plane strain hot rolling of slab and strip, Int J Mech Sci **41**(11) 1401-1421 (Nov 1999), 12A716
Round-to-square section drawing through flat idle rolls, Int J Mech Sci **41**(11) 1323-1338 (Nov 1999), 12A717
Investigations into asperity persistence in heavily loaded contacts, J Trib **121**(3) 441-448 (Jul 1999), 12A986

272C. Forging

Axisymmetric forging approach to preform design in ring rolling using a rigid-viscoplastic FEM, Int J Machine Tools Manuf **38**(10-11) 1183-1191 (Oct-Nov 1998), 1A761
Defect analysis in a semi-finished gear forging process by FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 1-5 (May 1998), 1A762
Finite element analysis for precision cold forging of helical gear using recurrent boundary conditions, Proc Inst Mech Eng J Eng Manuf **212**(B3) 231-240 (1998), 1A763
Finite element analysis of liquid ejection in continuously cast slab by sequential forging, Int J Machine Tools Manuf **38**(10-11) 1149-1163 (Oct-Nov 1998), 1A764
Simplified concept of improving a die fill in forging of bevel gears, Appl Mech Eng **2**(4) 597-602 (1997), 1T765
Study on the forging of external spur gears: Upper-bound analyses and experiments, Int J Machine Tools Manuf **38**(10-11) 1193-1208 (Oct-Nov 1998), 1A766
Influence of liquid extrusion on the microstructure and properties of an Al-Si alloy, Mat Manuf Processes **13**(3) 405-413 (1998), 1T769
Effects of average lubricant velocity and sliding velocity on friction behavior in mild steel sheet forming, J Trib **120**(4) 724-728 (Oct 1998), 2A771
Optimal open-loop ram velocity profiles for isothermal forging: A variational approach, J Manuf Sci Eng **120**(4) 774-780 (Nov 1998), 2A772
Automatic simulation of a sequence of hot-former forging processes by a rigid-thermoviscoplastic FEM, J Eng Mat Tech **120**(4) 291-296 (Oct 1998), 2A1332
Sensitivity of FE analysis of forging to input parameters, J Mat Processing Tech **82**(1-3) 21-26 (Oct 1998), 3A40
Analysis of tapered preforms in cold upsetting, Int J Machine Tools Manuf **39**(1) 1-16 (Jan 1998), 3A688
Interfacial heat transfer coefficient in hot die forging of titanium alloy, Proc Inst Mech Eng C **212**(C6) 485-496 (1998), 3A1306
Local analytical design sensitivity analysis of the forging problem using FEM, Comput Methods Appl Mech Eng **163**(1-4) 55-70 (Sep 1998), 4A720
Preform design of a generic turbine disk forging process, J Mat Processing Tech **84**(1-3) 193-201 (Dec 1998), 4A721
Study of pore closure in the manufacturing of heavy rings, J Mat Processing Tech **84**(1-3) 25-37 (Dec 1998), 4A722
Energy analysis of a through-put radial forging machine, J Mat Processing Tech **86**(1-3) 291-299 (Feb 1999), 6A784
Fed back level-set method for moving material-void interfaces, J Comput Appl Math **101**(1-2) 131-152 (Jan 1999), 6A785
Methodology for service life increase of hot forging tools, J Mat Processing Tech **87**(1-3) 237-246 (Mar 1999), 7A660
Comparison between two wear models, J Mat Processing Tech **87**(1-3) 223-229 (Mar 1999), 7A892
Forging and heading of hollow spur gear forms: An analysis and some experiments, Int J Mech Sci **41**(10) 1159-1189 (Oct 1999), 10A797
CAE analysis of the multi-stage forming processes of complicated automobile part (Chinese), J Shanghai Jiaotong Univ **33**(2) 170-173 (Feb 1999), 11A687
Experimental and theoretical analysis of deformation and microstructural evolution in the hot-die forging of titanium alloy aerofoil sections, J Mat Processing Tech **88**(1-3) 251-265 (Apr 1999), 11A688
Three-dimensional FEM simulation of the cross-shaft multi-stage forging processes (Chinese), J Shanghai Jiaotong Univ **33**(2) 192-195 (Feb 1999), 11A689
Concurrent engineering and the key techniques in progressive die CAD application (Chinese), J Shanghai Jiaotong Univ **33**(2) 228-232 (Feb 1999), 11A1001

272D. Extrusion

Computer modeling of the continuous forming extrusion process of AA6061 alloy, J Mat Processing Tech **79**(1-3) 200-212 (Jul 1998), 1A767
Development of a mathematical model for the calculation of the pressure drop in extrusion dies, J Reinforced Plastics Composites **17**(12) 1110-1118 (1998), 1A768
Influence of liquid extrusion on the microstructure and properties of an Al-Si alloy, Mat Manuf Processes **13**(3) 405-413 (1998), 1T769
Numerical method to compute the dissolution of second phases in ternary alloys, J Comput Appl Math **93**(2) 123-143 (Jul 1998), 1A770
Numerical simulation of joint shell extrusion process using 3D FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 18-22 (May 1998), 1A771
Optimal extrusion dies for rigid-plastic materials, Quart Appl Math **56**(3) 543-552 (Sep 1998), 1T772
Parametric analysis of hydrostatic extrusion, European J Mech Eng **43**(2) 61-65 (1998), 1A773
Experimental study of regularities of plastic deformation of metals along plane curvilinear trajectories (Russian), Prikl Mekh (Appl Mech) **33**(7) 65-71 (1997), 2T650
Effects of average lubricant velocity and sliding velocity on friction behavior in mild steel sheet forming, J Trib **120**(4) 724-728 (Oct 1998), 2A771
Modeling the microstructural changes during the homogenization of extrudable aluminium alloys, J Mech Behavior Mat **9**(2) 115-120 (1998), 2A773
FEM simulation of a friction testing method based on a combined forward conical can-backward straight can extrusion, J Trib **120**(4) 716-723 (Oct 1998), 2A1032
FE simulation of the influence of thermal and elastic effects on the accuracy of cold-extruded components, J Mat Processing Tech **84**(1-3) 247-260 (Dec 1998), 4A723
Reduction of viscous extrusion stresses and extrudate swell computation using slippery exit surfaces, J Non-Newtonian Fluid Mech **79**(2-3) 599-617 (Nov 1998), 4A724
Quantitative modeling of HDPE spurt experiments using wall slip and generalized Newtonian flow, J Non-Newtonian Fluid Mech **79**(2-3) 503-514 (Nov 1998), 4A992
Plane problem of the extrusion of a viscoplastic medium by parallel plates, J Appl Math Mech **62**(4) 565-573 (1998), 6A573
Modeling and simulation of the solids conveying and unfilled regions in polymer extrusion, J Reinforced Plastics Composites **18**(1) 15-26 (1999), 6A786
Optimal design for polymer extrusion - Part I: Sensitivity analysis for nonlinear steady-state systems, Comput Methods Appl Mech Eng **167**(3-4) 283-302 (Dec 1998), 6A787
Optimal design for polymer extrusion - Part II: Sensitivity analysis for weakly-coupled nonlinear steady-state systems, Comput Methods Appl Mech Eng **167**(3-4) 303-323 (Dec 1998), 6A788
Optimally-controlled strain-rate dies for plane-strain extrusion, J Mat Processing Tech **86**(1-3) 56-66 (Feb 1999), 6A789
Dynamics of viscoelastic jets of polymeric liquid extrudate, J Non-Newtonian Fluid Mech **81**(1-2) 105-132 (Feb 1999), 6A1261
Converged solutions of the Newtonian extrudate-swell problem, Int J Numer Methods Fluids **29**(3) 363-371 (Feb 1999), 7A661
Extrusion, channel, and profile bending: A review, J Mat Processing Tech **87**(1-3) 1-27 (Mar 1999), 7A662
Aging and mechanical properties of Al-Li/SiCp composite produced by mechanical milling and extrusion processing, Mat Manuf Processes **14**(1) 85-96 (1999), 8T692
Disappearance of extrusion instabilities in brass capillary dies, J Rheol **43**(2) 435-442 (Mar-Apr 1999), 8A693
Tribological simulation of aluminium hot extrusion, Wear **224**(2) 216-225 (Feb 1999), 8A694
Direct upper bound solution to rectangular-to-polygonal extrusion through square die, J Manuf Sci Eng **121**(2) 195-201 (May 1999), 9A765
Numerical investigation into hot square die extrusion of an L-section considering the variation of die bearing length, J Manuf Sci Eng **121**(2) 225-231 (May 1999), 9A766
Reliability-based analysis of a stretch-bending process for aluminium extrusions, Comput Struct **71**(1) 63-75 (Apr 1999), 9A767
Longwave stability of three-layer plane Poiseuille flow with an inner thin layer: Application to the coextrusion of polymers, Comptes Rendus L'Acad Sci Serie II **327**(2-3) 201-206 (Feb-Mar 1999), 9A1211
Effects of hot extrusion through a curved die on the mechanical properties of SiC$_p$\Al composites fabricated by melt-stirring, Composites Sci Tech **59**(5) 643-654 (Apr 1999), 10A619
Control volume analysis of feed flow in extruders, J Reinforced Plastics Composites **18**(5) 437-453 (1999), 10A798
Capillary rheometry for studying slip flow in paste extrusion, Appl Mech Eng **4**(S) 45-50 (1999), 11T690
Effective split of flow and die deformation calculations of aluminium extrusion, J Mat Processing Tech **88**(1-3) 67-76 (Apr 1999), 11A691
Research on the medium of extruding and bulging large-strain multi-way pipes (Chinese), J Huazhong Univ Sci Tech **27**(5) 85-87 (May 1999), 11A692
Investigation of the pressure behavior in a pultrusion die for graphite-epoxy composites, Composites Part A Appl Sci and Manuf **30A**(9) 1123-1132 (1999), 12A718
Selected characteristics of geometrical structure of polyethylene extrusion molding surface (Polish), Arch Naukio Mat **20**(1) 27-38 (1999), 12A719
Instability of channel flows of elastic liquids having continuously stratified properties, J Non-Newtonian Fluid Mech **85**(2-3) 273-298 (Aug 1999), 12A1177

272E. Rolling

Review of chatter studies in cold rolling, Int J Machine Tools Manuf **38**(12) 1499-1530 (Dec 1998), 1A186
Analysis of cross and vertical buckling in sheet metal rolling, Int J Mech Sci **40**(12) 1235-1246 (Dec 1998), 1A703
Axisymmetric forging approach to preform design in ring rolling using a rigid-viscoplastic FEM, Int J Machine Tools Manuf **38**(10-11) 1183-1191 (Oct-Nov 1998), 1A761
Large-strain elastic-plastic FE analysis of rolling process, Comput Methods Appl Mech Eng **161**(3-4) 315-347 (Aug 1998), 2A774
Residual stresses induced by deep rolling in notched components, J Mech Behavior Mat **9**(2) 129-140 (1998), 2A775
Surface characteristics of some roller burnished non-ferrous components, Mat Manuf Processes **13**(4) 505-515 (1998), 2A776
3-1/2 dof polynomial solution of the inferential H_2/H_∞ control problem with application to metal rolling, J Dyn Syst Meas Control **120**(4) 445-455 (Dec 1998), 3A381
Rolling of long screws, J Mat Processing Tech **82**(1-3) 1-12 (Oct 1998), 3A689
Rhenium-97: Milestones, Status, and Outlook, Mat Manuf Processes **13**(5) 645-782 (1998), 3A725
Experimental investigation of rolling contact of rigid bodies with polymer coating, Wear **219**(1) 105-113 (Aug 1998), 3A939
Efficient method for strip flatness analysis in cold rolling, Math Eng Industry **7**(1) 71-95 (1998), 4A725
Experimental measurement of curl in rolling, J Mat Processing Tech **84**(1-3) 202-209 (Dec 1998), 4A726
Air film thickness estimation in web handling processes, J Trib **121**(1) 50-55 (Jan 1999), 4A1286
Model experiments for the determination of the heat-transfer coefficient and transition thermal analysis in the direct rolling process, J Mat Processing Tech **84**(1-3) 210-224 (Dec 1998), 4A1370
Using neural networks to predict parameters in the hot working of aluminum alloys, J Mat Processing Tech **86**(1-3) 245-251 (Feb 1999), 6A425
Relationship between frictional coefficient and frictional factor in asymmetrical sheet rolling, J Mat Processing Tech **86**(1-3) 271-277 (Feb 1999), 6A790
Proposal of a new method for the spread rolling of thin strips, J Mat Processing Tech **87**(1-3) 207-212 (Mar 1999), 7A663
Analysis of the mechanic property in the noise reduction technique used in cylinder of roller mills (Chinese), J Huazhong Univ Sci Tech **26**(12) 59-61 (Dec 1998), 8A326
Influence of strain distribution on microstructure evolution during rod-rolling, Int J Mech Sci **41**(9) 1111-1131 (Sep 1999), 9A768
Upper bound analysis of plane strain rolling using a flow function and the weighted residuals method, Int J Numer Methods Eng **44**(11) 1671-1683 (Apr 1999), 9A769
Application of an elastic roller with slightly convex shape to the improvement of the flatness of a strip for cold rolling, JSME Int J Ser A **40**(4) 459-469 (Oct 1997), 10A799
Effect of scaling on interfacial friction in hot rolling of steels, J Mat Processing Tech **88**(1-3) 105-113 (Apr 1999), 11A693
Temperature, roll force and roll torque during hot bar rolling, J Mat Processing Tech **88**(1-3) 147-153 (Apr 1999), 11A694
Multi-scale roughness transfer in cold metal rolling, Trib Int **32**(1) 45-57 (Jan 1999), 12A720
Positron annihilation in deformed and hydrogenated Pd-23% at Cu alloy, Acta Phys Polonica A **95**(4) 637-640 (Apr 1999), 12A862

272F. Drawing

Advanced Methods in Materials Processing Defects (Elsevier Sci, New York) 1N14
Computational analysis of deep-drawing for composite materials considering the microstructure: Proposition of analytical method (Japanese), J Soc Mat Sci Japan **47**(6) 593-598 (Jun 1998), 1A634
Effects of average lubricant velocity and sliding velocity on friction behavior in mild steel sheet forming, J Trib **120**(4) 724-728 (Oct 1998), 2A771
Comparison of anisotropic yield criteria and their application to the forming of wire, J Mech Behavior Mat **9**(2) 103-114 (1998), 2A777
Magnetic field assisted finishing of ceramics - Part I: Thermal model, J Trib **120**(4) 645-651 (Oct 1998), 2A778
Applying the FEM for determination of tool wear in conventional deep-drawing, J Mat Processing Tech **83**(1-3) 98-105 (Nov 1998), 3A31
Development of hydro-mechanical deep drawing, J Mat Processing Tech **83**(1-3) 14-25 (Nov 1998), 3A690
Hydraulic pressure enhancement of the deep-drawing process to yield deeper cups, J Mat Processing Tech **82**(1-3) 156-164 (Oct 1998), 3A691
Optimization of the draw-die design in conventional deep-drawing in order to minimize tool wear, J Mat Processing Tech **83**(1-3) 106-114 (Nov 1998), 3A692
Calculation of drawbead restraining forces with the Bauschinger effect, Proc Inst Mech Eng J Eng Manuf **212**(B7) 549-553 (1998), 6A791
Computer-Aided Design-CAM system for deep drawing dies in a simple-action press, J Mat Processing Tech **87**(1-3) 258-265 (Mar 1999), 7A664
Drawbead structure of large deformation area in a trunk lid (Chinese), J Shanghai Jiaotong Univ **32**(11) 144-147 (Nov 1998), 7A665
Three-dimensional rigid-plastic FE analysis of non-steady-state shaped drawing process, Int J Machine Tools Manuf **39**(7) 1135-1155 (Jul 1999), 9A770
Influence of punch shapes on the collar-drawing process of sheet steel, J Mat Processing Tech **88**(1-3) 134-146 (Apr 1999), 11A695
Usage of 3D roughness parameters adapted to the experimental simulation of sheet-tool contact during a drawing operation, Trib Int **32**(1) 59-67 (Jan 1999), 12T994

272G. Sheet metal forming and stamping

Advanced Methods in Materials Processing Defects (Elsevier Sci, New York) 1N14
Equivalence of Storen-Rice's method with Hill's for the analysis of localized necking (Japanese), J Soc Mat Sci Japan **47**(6) 587-592 (Jun 1998), 1A565
Adaptivity and wrinkle indication in sheet metal-forming, Comput Methods Appl Mech Eng **161**(1-2) 127-143 (Aug 1998), 1A774
Application of an inverse FE approach in the concurrent design of sheet stamping, J Mat Processing Tech **79**(1-3) 86-93 (Jul 1998), 1A775
Deformation mechanics of the springback in U-bending, Appl Mech Eng **2**(3) 379-403 (1997), 1A776
Numerical simulation of 3D sheet forming processes (Chinese), J Shanghai Jiaotong Univ **32**(5) 6-9 (May 1998), 1A777
Optimal process design in non-isothermal non-steady metal forming by the FEM, Int J Numer Methods Eng **42**(8) 1343-1390 (Aug 1998), 1A778
Thermo-mechanical modeling and sensitivity analysis for metal-forming operations, Comput Methods Appl Mech Eng **161**(1-2) 113-125 (Aug 1998), 1A779
Three-dimensional FE analysis for the stamping of a motorcycle oil tank, J Manuf Sci Eng **120**(4) 770-773 (Nov 1998), 2A39
Nonaxisymmetric periodic and nonstationary oscillations of round die on the elastic half-space (Russian), Prikl Mekh (Appl Mech) **33**(5) 41-48 (1998), 2A247
Development of a reconfigurable tool for forming aircraft body panels, J Manuf Syst **17**(4) 287-296 (1998), 2T573
Coupled boundary-FE approach for the 3D simulation of air venting in blow molding and thermoforming, Int J Numer Methods Eng **43**(1) 151-174 (Sep 1998), 2A779
Hybrid membrane-shell method for rapid estimation of springback in anisotropic sheet metals, J Appl Mech **65**(3) 671-684 (Sep 1998), 2A780
Rapid tooling for sheet metal forming using profiled edge laminations: Design principles and demonstration, J Manuf Sci Eng **120**(4) 746-754 (Nov 1998), 2A781
Blank design and strain estimates for sheet metal forming processes by a FE inverse approach with initial guess of linear deformation, J Mat Processing Tech **82**(1-3) 145-155 (Oct 1998), 3A32
Step-wise combined implicit-explicit FE simulation of autobody stamping processes, J Mat Processing Tech **83**(1-3) 245-260 (Nov 1998), 3A41
Finite element analysis of forming limit in bore expanding of aluminium alloy sheets, Arch Appl Mech **68**(7-8) 566-576 (Sep 1998), 3A693
Implementation of an equivalent drawbead model in a FE code for sheet metal forming, J Mat Processing Tech **83**(1-3) 234-244 (Nov 1998), 3A694
Lagrangian reproducing kernel particle method for metal forming analysis, Comput Mech **22**(3) 289-307 (Sep 1998), 3A695
Automated process planning for sheet metal bending operations, J Manuf Syst **17**(5) 338-360 (1998), 4A464
Sheet metal products: Database in support of their process planning and surface development, Int J Comput Integrated Manuf **11**(6) 524-533 (Nov-Dec 1998), 4T504
Moment-curvature measurement in thin sheet - Part I: Equipment, Int J Mech Sci **41**(3) 249-260 (Mar 1999), 4A583
Moment-curvature measurement in thin sheet - Part II: Yielding and kinking in aged steel sheet, Int J Mech Sci **41**(3) 261-267 (Mar 1999), 4A584
Elastoplastic FE analyses of metal deformations using polycrystal constitutive models, Comput Methods Appl Mech Eng **165**(1-4) 23-41 (Nov 1998), 4A727
Virtual design system for sheet metal forming, J Mat Processing Tech **84**(1-3) 107-116 (Dec 1998), 4A728
Optimum condition of manufacturing a smooth engineered surface using the internal-ironing process, Trib Trans **41**(4) 563-571 (Oct 1998), 5A622
Expert system for optimal selection of a press for a sheet metal operation, J Mat Processing Tech **86**(1-3) 131-138 (Feb 1999), 6A422
Design and analysis of reconfigurable discrete dies for sheet metal forming, J Manuf Syst **17**(6) 436-454 (1998), 6A792
Influence of surface conditions in hot forming determined by ring upsetting: A numerical and experimental investigation, Proc Inst Mech Eng J: Eng Trib **212**(J6) 453-465 (1998), 6T793
Critical tolerance oriented process planning in sheet metal bending, J Mech Des **121**(1) 136-144 (Mar 1999), 7A423
Method for calculating the stress-strain state in the general boundary-value problem of metal forming - Part 1, Int J Solids Struct **36**(9) 1253-1262 (Mar 1999), 7A503
Hydroforming of sheet metal pairs, J Mat Processing Tech **87**(1-3) 154-164 (Mar 1999), 7A666
Multi-point forming: A flexible manufacturing method for a 3D surface sheet, J Mat Processing Tech **87**(1-3) 277-280 (Mar 1999), 7A667
Nonlinear FE analysis of springback, Commun Numer Methods Eng **15**(1) 33-42 (Jan 1999), 7A668
Numerical simulation of the integral hydro-bulge forming of non-clearance double-layer spherical vessels: Deformation analysis, Comput Struct **70**(2) 243-256 (Jan 1999), 7A669
Simulation and experiment analysis of stamping forming process of automobile side-frame (Chinese), J Shanghai Jiaotong Univ **32**(11) 135-139 (Nov 1998), 7A670
Axisymmetric membrane element with bending stiffness for static implicit sheet metal forming simulation, J Appl Mech **66**(1) 153-164 (Mar 1999), 8A695
Experimental research and FEM simulations of central part of large-type ellipsoidal head (Chinese), J Dalian Univ Tech **38**(6) 682-686 (Nov 1998), 8A696
Simulation of metal forming processes with FEMs, Int J Numer Methods Eng **44**(10) 1397-1428 (Apr 1999), 8A697
Textural vs structural plastic instabilities in sheet metal forming, Acta Mat **47**(3) 859-866 (Feb 1999), 8A698
Surface roughening and contact behavior in forming of aluminum sheet, J Trib **121**(2) 224-233 (Apr 1999), 8A915
Faster analysis of forming problems through use of coarse mesh models for dies, Finite Elements Anal Des **32**(1) 21-35 (Mar 1999), 9A36
Multiple fault detection and isolation using the Haar transform - Part 2: Application to the stamping process, J Manuf Sci Eng **121**(2) 295-299 (May 1999), 9A556
Comparison of rapid fabrication methods for sheet metal forming dies, J Manuf Sci Eng **121**(2) 214-224 (May 1999), 9A771
Concurrent design of sheet metal forming product and process, J Manuf Sci Eng **121**(2) 189-194 (May 1999), 9A772
New punching method in intractable AFRP laminated composites by press working, JSME Int J Ser C **41**(3) 493-498 (Sep 1998), 9A773
Indentation by nominally flat or conical indenters with rounded corners, Int J Solids Struct **36**(27) 4149-4181 (Sep 1999), 10A522
Numerical simulation for a laser bending of sheet metal, Chinese J Mech Eng **11**(4) 277-282 (Dec 1998), 10A800
Fracture limit prediction using ductile fracture criteria for forming of an automotive aluminum sheet, Int J Mech Sci **41**(10) 1273-1288 (Oct 1999), 10A896
Simulation of Materials Processing: Theory, Methods and Applications (Balkema, Rotterdam, Netherlands, 1998) 11N23
Automatic remeshing in 3D analysis of forming processes, Int J Numer Methods Eng **45**(5) 553-568 (Jun 1999), 11A696
Computer simulation for multi-stage sheet metal forming processes (Chinese), J Shanghai Jiaotong Univ **33**(2) 244-246 (Feb 1999), 11A697
Elasto-plastic FEM based on incremental deformation theory and continuum based shell elements for planar anisotropic sheet materials, Comput Methods Appl Mech Eng **174**(1-2) 23-56 (May 1999), 11A698
Experimental investigation of friction effects enhanced by tool geometry and forming method on plane strain sheet metal forming, Trib Trans **42**(2) 343-352 (Apr 1999), 11A699
Note on hydroforming with constant fluid pressure, J Mat Processing Tech **88**(1-3) 51-56 (Apr 1999), 11A700
Object-oriented programming approach to the Lagrangian FEM analysis of large inelastic deformations and metal-forming processes, Int J Numer Methods Eng **45**(4) 399-445 (Jun 1999), 11A701
Optimization for the process parameters of sheet metal forming (Chinese), J Shanghai Jiaotong Univ **33**(2) 178-180 (Feb 1999), 11A702
Sheet forming simulation of knitted fabric composites considering fabric reorientation, Mech Res Commun **26**(2) 209-215 (Mar-Apr 1999), 11T703
Springback analysis for sheet forming processes by explicit FEM in conjunction with the orthogonal regression analysis, Int J Solids Struct **36**(30) 4653-4668 (Oct 1999), 11A704
Surface modification for improving the formability of SPA laminated composite, Adv Eng Software **30**(7) 451-458 (Jul 1999), 11A705
Effect of the geometry and the surface treatment of punching tools on the tool life and wear conditions in the piercing of thick steel plate, J Mat Processing Tech **88**(1-3) 122-133 (Apr 1999), 11A968
Direct and indirect approaches at the plasto-hydrodynamic lubrication problem. Application to an industrial ironing process, J Trib **121**(3) 523-527 (Jul 1999), 12A721
Flattening of random rough surfaces in metal-forming processes, J Trib **121**(3) 433-440 (Jul 1999), 12A722
Optimum forming loading paths for Pb-Sn superplastic sheet materials, J Eng Mat Tech **121**(3) 341-345 (Jul 1999), 12A723
Process design and sensitivity analysis in metal forming, Int J Numer Methods Eng **45**(6) 661-692 (Jun 1999), 12A724

272H. Machining (incl NM)

Optimal sub-division of the depth of cut to achieve minimum production cost in multi-pass turning using a genetic algorithm, J Mat Processing Tech **79**(1-3) 101-108 (Jul 1998), 1A490
Automated setup planning for lathe machining, J Manuf Syst **17**(3) 196-208 (1998), 1A497
Machining algebra for mapping volumes to machining operations for developing extensible generative CAPP, J Manuf Syst **17**(3) 167-182 (1998), 1T506
Analysis of machining of FRPs using FEM, Int J Machine Tools Manuf **38**(12) 1531-1549 (Dec 1998), 1A780
Chip morphology and hole surface texture in the drilling of cast aluminum alloys, J Mat Processing Tech **79**(1-3) 72-78 (Jul 1998), 1A781
Development of a laser Doppler system for in-process evaluation of diameters on computer numerical controlled turning machines, Proc Inst Mech Eng J Eng Manuf **212**(B3) 183-194 (1998), 1A782
Drilling machine simulator considering deflection of drill (Japanese), J Japan Soc Precision Eng **64**(6) 902-906 (Jun 1998), 1A783
Force model for nose radius worn tools with a chamfered main cutting edge, Int J Machine Tools Manuf **38**(12) 1467-1498 (Dec 1998), 1A784
High-speed and high-efficiency cutting method for 3D die and mold (Japanese), J Japan Soc Precision Eng **64**(6) 819-824 (Jun 1998), 1T785
High-speed milling of rubber - 1st Report: Fundamental experiments and considerations for improvement of work accuracy (Japanese), J Japan Soc Precision Eng **64**(6) 897-901 (Jun 1998), 1A786
Improved model for oblique cutting and its application to chip-control research, J Mat Processing Tech **79**(1-3) 79-85 (Jul 1998), 1A787
Investigation of AJM for deburring, J Mat Processing Tech **79**(1-3) 52-58 (Jul 1998), 1A788
Machining characteristics of abrasive jet machining (Japanese), J Japan Soc Precision Eng **64**(6) 881-885 (Jun 1998), 1A789
Machining nickel base superalloys: Inconel 718, Proc Inst Mech Eng J Eng Manuf **212**(B3) 195-206 (1998), 1A790
Modeling of ductile-mode material removal in rotary ultrasonic machining, Int J Machine Tools Manuf **38**(10-11) 1399-1418 (Oct-Nov 1998), 1A791
Neural network approach for force and contour error control in multi-dimensional end milling operations, Int J Machine Tools Manuf **38**(10-11) 1343-1359 (Oct-Nov 1998), 1A792
Prediction of the cutting conditions giving plastic deformation of the tool in oblique machining, Int J Machine Tools Manuf **38**(10-11) 1165-1182 (Oct-Nov 1998), 1A793
Present and future of high-speed milling (Japanese), J Japan Soc Precision Eng **64**(6) 808-812 (Jun 1998), 1T794
Relief-face friction in vibration tapping, Int J Mech Sci **40**(12) 1209-1222 (Dec 1998), 1A795
Simulation and experimental analysis of low-pass effects upon cutting power in milling (Chinese), J Shanghai Jiaotong Univ **32**(5) 49-52 (May 1998), 1A796
Slip-line solution to metal machining using a cutting tool with a step-type chip-breaker, J Mat Processing Tech **79**(1-3) 217-223 (Jul 1998), 1A797
Study on EEM (Elastic Emission Machining): Influences of dissolved oxygen to Si wafer surface

(Japanese), J Japan Soc Precision Eng **64**(6) 907-912 (Jun 1998), 1A798
System concept in metal cutting, J Mat Processing Tech **79**(1-3) 189-199 (Jul 1998), 1A799
Waviness compensation of precision machining by piezoelectric micro cutting device, Int J Machine Tools Manuf **38**(10-11) 1305-1322 (Oct-Nov 1998), 1A800
Duplex spread blade method for cutting hypoid gears with modified tooth surface, J Mech Des **120**(3) 441-447 (Sep 1998), 1A1033
Measurement of tool face temperature in orthogonal diamond cutting (Japanese), J Japan Soc Precision Eng **64**(6) 892-896 (Jun 1998), 1A1384
Drilling of bone: A robust automatic method for the detection of drill bit break-through, Proc Inst Mech Eng H **212**(H3) 209-221 (1998), 1A1528
Study on regenerative chatter vibration in ball end milling - 1st Report: Theoretical analysis of chatter stability limit, J Japan Soc Precision Eng **64**(7) 1047-1051 (Jul 1998), 2A260
Adaptive control of the WEDM process using the fuzzy control strategy, J Manuf Syst **17**(4) 263-274 (1998), 2A534
Development of a micro drilling machine using voice coil motors: Drill thrust measurement and high speed driving, Int J Japan Soc Precision Eng **32**(2) 116-121 (Jun 1998), 2A572
Behavior of cutting heat in high speed cutting, J Japan Soc Precision Eng **64**(7) 1067-1071 (Jul 1998), 2A782
Bifurcation and catastrophes in metal-cutting processes, J Manuf Sci Eng **120**(4) 817-820 (Nov 1998), 2A783
Control system for chatter avoidance by ramping the spindle speed, J Manuf Sci Eng **120**(4) 674-683 (Nov 1998), 2A784
Correlation between the cutting fluid pressure distribution and the topography of tool wear in BTA drilling, J Manuf Sci Eng **120**(4) 821-822 (Nov 1998), 2A785
Empirical tool force model for precision machining, J Manuf Sci Eng **120**(4) 700-707 (Nov 1998), 2A786
Finite element method simulation on cutting process of two phase alloys, J Japan Soc Precision Eng **64**(7) 1083-1087 (Jul 1998), 2A787
Interpretation of size effect in orthogonal machining of composite materials - Part I: Unidirectional glass-fiber-reinforced plastics, Composites Part A Appl Sci and Manuf **29A**(8) 887-892 (1998), 2A788
Interpretation of size effect in orthogonal machining of composite materials - Part II: Sheet molding compound, Composites Part A Appl Sci and Manuf **29A**(8) 893-897 (1998), 2A789
Mechanics and dynamics of ball end milling, J Manuf Sci Eng **120**(4) 684-692 (Nov 1998), 2A790
Multi-category classification of tool conditions using wavelet packets and ART2 network, J Manuf Sci Eng **120**(4) 807-816 (Nov 1998), 2A791
Nd-YAG laser machining of SiC fiber-borosilicate glass composites - Part I: Optimization of laser pulse parameters, Composites Part A Appl Sci and Manuf **29A**(8) 947-954 (1998), 2A792
Nd-YAG laser machining of SiC fiber-borosilicate glass composites - Part II: The effect of process variables, Composites Part A Appl Sci and Manuf **29A**(8) 955-964 (1998), 2A793
Prediction of extent of heat affected zone in laser grooving of unidirectional fiber-reinforced plastics, J Eng Mat Tech **120**(4) 321-327 (Oct 1998), 2A794
Slip-line field for ploughing during orthogonal cutting, J Manuf Sci Eng **120**(4) 693-699 (Nov 1998), 2A795
Tool wear in milling hardened die steel, J Manuf Sci Eng **120**(4) 669-673 (Nov 1998), 2A796
Measurement of tool face temperature in turning with single crystal diamond, J Japan Soc Precision Eng **64**(7) 1088-1089 (Jul 1998), 2T1337
System theory approach to mode coupling chatter in machining, J Dyn Syst Meas Control **120**(4) 545-547 (Dec 1998), 3A194
Intelligent control for handling motion nonlinearity in a retrofitted machining table, IEE Proc Control Theory Appl **145**(4) 403-408 (Jul 1998), 3A414
Analytical evaluation of the cutting forces in orthogonal cutting using a dynamic model of the shear zone with parallel boundaries, J Mat Processing Tech **82**(1-3) 61-77 (Oct 1998), 3A696
Cutting of ductile sheet by asymmetric pointed tools, J Mat Processing Tech **82**(1-3) 172-178 (Oct 1998), 3A697
Effect of tool geometry in nanometric cutting: A molecular dynamics simulation approach, Wear **219**(1) 84-97 (Aug 1998), 3A698
Electrochemical etch stop engineering for bulk micromachining, Mechatronics **8**(5) 595-612 (Aug 1998), 3T699
G codes for the specification of Pythagorean-hodograph tool paths and associated feedrate functions on open-architecture CNC machines, Int J Machine Tools Manuf **39**(1) 123-142 (Jan 1998), 3A700
Kinetic energy of wear particles generated by abrasive-water-jet erosion, J Mat Processing Tech **83**(1-3) 121-126 (Nov 1998), 3A701
Machining of Al-SiC particulate metal-matrix composites - Part I: Tool performance, J Mat Processing Tech **83**(1-3) 151-158 (Nov 1998), 3A702
Machining of Al-SiC particulate metal matrix composites - Part II: Workpiece surface integrity, J Mat Processing Tech **83**(1-3) 277-285 (Nov 1998), 3A703
Numerical simulation of steady state metal cutting, Proc Inst Mech Eng C **212**(C5) 331-341 (1998), 3A704
On-line detection of the breakage of small diameter drills using current signature wavelet transform, Int J Machine Tools Manuf **39**(1) 157-164 (Jan 1998), 3A705
Optimization procedure to determine the coefficients of the extended Taylor's equation in machining, Int J Machine Tools Manuf **39**(1) 17-31 (Jan 1998), 3A706
Overview of approaches to end milling tool monitoring, Int J Machine Tools Manuf **39**(1) 105-122 (Jan 1998), 3A707
Recognition of machining features based on HSPCE decomposition, feature composition, and process centered classification, J Mech Des **120**(4) 668-677 (Dec 1998), 3A708
Research on the algorithm of CNC profiling processing (Chinese), J Huazhong Univ Sci Tech **26**(8) 13-15 (Aug 1998), 4A409
Principle of real-time feature interpolation (Chinese), J Huazhong Univ Sci Tech **26**(8) 8-12 (Aug 1998), 4A416
Design optimization of cutting parameters for turning operations based on the Taguchi method, J Mat Processing Tech **84**(1-3) 122-129 (Dec 1998), 4A468
Off-line modeling and planning of optimal clamping forces for an intelligent fixturing system, Int J Machine Tools Manuf **39**(2) 253-271 (Feb 1999), 4A473
Optimal cutter selection and machining plane determination for process planning and NC machining of complex surfaces, J Manuf Syst **17**(5) 371-388 (1998), 4A474
Waterjet in-process dressing - 1st Report: Dressing property and jet pressure (Japanese), J Japan Soc Precision Eng **64**(9) 1335-1339 (Sep 1998), 4A479
Development od drilling optimization strategies for CAM applications, J Mat Processing Tech **84**(1-3) 181-188 (Dec 1998), 4A484
Application of acoustic emission for precision drilling process monitoring, Int J Machine Tools Manuf **39**(3) 371-387 (Mar 1999), 4A729
Computational aspects of tribology in metal machining, Proc Inst Mech Eng J: Eng Trib **212**(J4) 307-318 (1998), 4A730
Configuration synthesis of machining centers with tool change mechanisms, Int J Machine Tools Manuf **39**(2) 273-295 (Feb 1999), 4A731
Determination of step length in three-axis NC machining of free form surface (Chinese), J Huazhong Univ Sci Tech **26**(8) 7-9 (Aug 1998), 4A732
Dynamic optimization of multipass milling operations via geometric programming, Int J Machine Tools Manuf **39**(2) 297-320 (Feb 1999), 4A733
Experimental investigation of the cutting temperature when turning with coated indexable inserts, Int J Machine Tools Manuf **39**(3) 355-369 (Mar 1999), 4A734
Fracture at the exit of the hole during the ultrasonic drilling of engineering ceramics, J Mat Processing Tech **84**(1-3) 20-24 (Dec 1998), 4A735
Generation of NC instruction codes for multi-axes machine tool by simulation of machine tool motion (Japanese), J Japan Soc Precision Eng **64**(9) 1365-1369 (Sep 1998), 4A736
High-speed turning experiments on metal matrix composites, Composites Part A Appl Sci and Manuf **29A**(12) 1501-1509 (1998), 4A737
LQI control of surface roughness in turning (Japanese), J Japan Soc Precision Eng **64**(9) 1330-1334 (Sep 1998), 4A738
Machinability of BN added steels (Japanese), J Japan Soc Precision Eng **64**(9) 1370-1374 (Sep 1998), 4A739
Machining rate of hydrodynamic polishing process under semi-contact lubricating condition, Wear **220**(1) 22-33 (Sep 1998), 4A740
NC tool path generation from dense laser-scan measurement data (Chinese), J Huazhong Univ Sci Tech **26**(S1) 15-17 (May 1998), 4A741
Net-shape machining and the process-dependent failure of fiber-reinforced plastics under static load, J Composite Tech Res **20**(4) 210-220 (Oct 1998), 4A742
Noncircular cutting on a lathe using tool position and differential motor current, Int J Machine Tools Manuf **39**(2) 209-227 (Feb 1999), 4A743
Optimization of cutting parameters for maximizing tool life, Int J Machine Tools Manuf **39**(2) 343-353 (Feb 1999), 4A744
Prediction and computer simulation of dynamic thrust and torque in vibration drilling, Proc Inst Mech Eng J Eng Manuf **212**(B6) 489-497 (1998), 4A745
Real-time generation and control of cutter path for 5-axis CNC machining, Int J Machine Tools Manuf **39**(3) 471-488 (Mar 1999), 4A746
Study on honing using a machining center - 1st Report: Development of a honing unit (Japanese), J Japan Soc Precision Eng **64**(9) 1360-1364 (Sep 1998), 4A747
Study of acoustic emission model in drilling process (Chinese), J Beijing IT **18**(3) 284-289 (Jun 1998), 5A269
Theoretical study of acoustic emission mathematical model during turning (Chinese), J Beijing IT **18**(2) 183-189 (Apr 1998), 5A271
Theoretical study of mathematical model of acoustic emission of turning tool crack (Chinese), J Beijing IT **18**(2) 170-175 (Apr 1998), 5A272
Fuzzy characteristics and fuzzy recognition for cutting tool states (Chinese), J Beijing IT **18**(2) 176-182 (Apr 1998), 5A348
Clamping characteristics of pin-type vacuum chuck - 1st Report: Influence of back-surface waviness on wafer flatness, J Japan Soc Precision Eng **64**(10) 1517-1521 (Oct 1998), 5A623
Development of 6-axis force sensing table coping with cutting heat, J Japan Soc Precision Eng **64**(10) 1537-1541 (Oct 1998), 5A624
In-process surface recognition system based on neural networks in end milling cutting operations, Int J Machine Tools Manuf **39**(4) 583-605 (Apr 1999), 5A625
Mechanical modeling of high speed drilling - 1: Predicting torque and thrust, Int J Machine Tools Manuf **39**(4) 553-568 (Apr 1999), 5A626
Mechanical modeling of high speed drilling - 2: Predicted and experimental results, Int J Machine Tools Manuf **39**(4) 569-581 (Apr 1999), 5A627
Study on automatic monitor of cutting tool states (Chinese), J Beijing IT **18**(3) 279-283 (Jun 1998), 5A628
Two dof active work-rest mechanism for turning process, J Japan Soc Precision Eng **64**(10) 1477-1481 (Oct 1998), 5A629
Metal Cutting Mechanics (CRC Press, Boca Raton FL, 1998) 6N24
Study of an oblique cutting model, J Mat Processing Tech **86**(1-3) 119-130 (Feb 1999), 6A27
Chatter suppression via an oscillating cutter, J Manuf Sci Eng **121**(1) 54-60 (Feb 1999), 6A199
Design of bulk micromachined suspensions, J Micromech Microeng **8**(4) 263-271 (Dec 1998), 6A434
Structural and mechanical properties of polycrystalline silicon germanium for micromachining applications, J Microelectromechanical Syst **7**(4) 365-372 (Dec 1998), 6T447
Computer-aided mold engraving: From point-data smoothing, NC machining, to accuracy checking, J Mat Processing Tech **86**(1-3) 101-114 (Feb 1999), 6A488
Improvement on productivity of machining centers: Effects of tool paths on productivity, Int J Japan Soc Precision Eng **32**(3) 171-177 (Sep 1998), 6A513
Analysis of burr formation mechanism in orthogonal cutting, J Manuf Sci Eng **121**(1) 1-7 (Feb 1999), 6A794
Analysis of carbon fiber reinforced plastic cutting by FEM II, Int J Japan Soc Precision Eng **32**(3) 198-199 (Sep 1998), 6T795
Analysis of the motion accuracy of 5-axis controlled machining centers using DBB method, Int J Japan Soc Precision Eng **32**(3) 188-193 (Sep 1998), 6A796
Drilling mechanisms in ultrasonic-vibration assisted microdrilling, J Japan Soc Precision Eng **64**(11) 1633-1637 (Nov 1998), 6A797
Effect of axial rake angle on Burr formation in milling, J Japan Soc Precision Eng **64**(11) 1658-1663 (Nov 1998), 6A798
Effect of in-plane exit angle and rake angles on burr height and thickness in face milling, J Manuf Sci Eng **121**(1) 13-19 (Feb 1999), 6A799
Finite-element analysis and simulation of machining: A bibliography 1976-1996, J Mat Processing Tech **86**(1-3) 17-44 (Feb 1999), 6A800
Finite-element analysis of machining with the tool edge considered, J Mat Processing Tech **86**(1-3) 45-55 (Feb 1999), 6A801
Integration of process simulation in machining parameter optimization, J Manuf Sci Eng **121**(1) 134-143 (Feb 1999), 6A802
Investigation for controlled electrochemical machining through response surface methodology-based approach, J Mat Processing Tech **86**(1-3) 200-207 (Feb 1999), 6A803
Machinability of nickel-based alloys: A review, J Mat Processing Tech **86**(1-3) 1-16 (Feb 1999), 6A804
Material removal mechanisms of single-crystal silicon on nanoscale and at ultralow loads, Wear **223**(1-2) 66-78 (Dec 1998), 6A805
Measurement of temperature of CBN tool in turning of high hardness steel, J Japan Soc Precision Eng **64**(11) 1684-1688 (Nov 1998), 6A806
Non-free cutting and its dof confinement, J Manuf Sci Eng **121**(1) 150-153 (Feb 1999), 6A807
Study on high-speed milling of hard materials - 1st Report: Development of cutting force and cutting edge temperature measuring system, J Japan Soc Precision Eng **64**(11) 1674-1678 (Nov 1998), 6A808
Study on residual stress measurement of precision machining surface for using scanning phase-measuring acoustic microscope, J Japan Soc Precision Eng **64**(11) 1679-1683 (Nov 1998), 6A809
Time series analysis in metal cutting: Chatter versus chatter-free cutting, Mech Syst Signal Processing **12**(6) 839-854 (Nov 1998), 6A810
Tool path generation using C-space for 5-axis control machining, J Manuf Sci Eng **121**(1) 144-149 (Feb 1999), 6A811
Use of thermal imaging, temperature and distortion models for machine tool thermal error reduction, Proc Inst Mech Eng J Eng Manuf **212**(B8) 671-679 (1998), 6A812
Acoustic emission monitoring of tool wear in end-milling using time-domain averaging, J Manuf Sci Eng **121**(1) 8-12 (Feb 1999), 6A992
Condition monitoring in reaming through acoustic emission signals, J Mat Processing Tech **86**(1-3) 81-86 (Feb 1999), 6A994
Intelligent detection of drill wear, Mech Syst Signal Processing **12**(6) 863-873 (Nov 1998), 6A1095
In-process measurement and workpiece referred form accuracy control - 6th Report: The influence of the control start point and the sensing position for a facing lathe (Japanese), J Japan Soc Precision Eng **64**(12) 1806-1810 (Dec 1998), 7T438
Determination of finish-cutting operation number and machining-parameters setting in wire electrical discharge machining, J Mat Processing Tech **87**(1-3) 69-81 (Mar 1999), 7A671
Development of five-axis control processing algorithm for free-formed surfaces using tangent slopes (Japanese), J Japan Soc Precision Eng **64**(12) 1801-1805 (Dec 1998), 7A672
Experimental study on machining rate distribution of hydrodynamic polishing process, Wear **224**(1) 95-105 (Jan 1999), 7A673
Load cell for dynamic measurement of cutting forces generated during ultrasonic drilling and milling of hard materials, Proc Inst Mech Eng E **212**(E4) 263-270 (1998), 7A674
Machining of free-form surfaces and geometrical specifications, Proc Inst Mech Eng J Eng Manuf **213**(B1) 21-27 (1999), 7A675
Scheme of adaptive turning operations, J Mat Processing Tech **87**(1-3) 119-127 (Mar 1999), 7A676
Study on hot machining of brittle materials (Japanese), J Japan Soc Precision Eng **64**(12) 1831-1835 (Dec 1998), 7A677
Surface roughness generated by ball-end mill on five-axis controlled machining centers (Japanese), J Japan Soc Precision Eng **64**(12) 1826-1830 (Dec 1998), 7A678
Contact condition modeling for machining fixture setup processes, Int J Machine Tools Manuf **39**(5) 787-803 (May 1999), 8A480
Thermo-mechanical modeling of orthogonal machining process by FE analysis, Int J Machine Tools Manuf **39**(5) 731-750 (May 1999), 8A490
Exact tool allocation approach for CNC machines, Int J Comput Integrated Manuf **12**(2) 129-140 (Mar-Apr 1999), 8A497
Aging and mechanical properties of Al-Li/SiCp composite produced by mechanical milling and extrusion processing, Mat Manuf Processes **14**(1) 85-96 (1999), 8T692
Advance in metal cutting technology: From micron to nanometer, from high speed to ultra-high speed, from mechanical control to intelligent control (Japanese), J Japan Soc Precision Eng **65**(1) 25-30 (Jan 1999), 8T699
Algorithm for eliminating global tool interference in 5-axis sculptured surfaces machining (Chinese), J Huazhong Univ Sci Tech **26**(12) 19-21 (Dec 1998), 8A700
Basic geometric analysis of 3D chip forms in metal cutting - Part 1: Determining up-curl and side-curl radii, Int J Machine Tools Manuf **39**(5) 751-769 (May 1999), 8A701
Detection of uncut area for machining of 2.5D pocket with islands (Japanese), J Japan Soc Precision Eng **65**(1) 90-94 (Jan 1999), 8A702
Development of electrorheological fluid assisted machining for 3D small parts (Japanese), J Japan Soc Precision Eng **65**(1) 145-149 (Jan 1999), 8A703
High speed end milling of hardened steel - 2nd report: Comparison of high speed milling machine with air bearing spindle and that with ball bearing spindle (Japanese), J Japan Soc Precision Eng **65**(2) 209-213 (Feb 1999), 8A704
In-process prediction of cutting depths in end milling, Int J Machine Tools Manuf **39**(5) 705-721 (May 1999), 8A705
Neural-network approach for predicting hole quality in reaming, Int J Machine Tools Manuf **39**(5) 723-730 (May 1999), 8A706
Study on high-speed milling of hard materials - 2nd Report: Effect of tool shape on cutting force, cutting edge temperature and tool wear (Japanese), J Japan Soc Precision Eng **65**(2) 234-244 (Feb 1999), 8A707
Curve hole machining by self-movable mechanism with electrical discharge machining function: Development of automatic discharge gap controller

(Japanese), J Japan Soc Precision Eng **65**(2) 245-249 (Feb 1999), 8A721
Analytical stability prediction and design of variable pitch cutters, J Manuf Sci Eng **121**(2) 173-178 (May 1999), 9A89
Micromachined double backplate differential capacitive microphone, J Micromech Microeng **9**(1) 30-33 (Mar 1999), 9T490
Computer-aided operation planning system for automatic machining of injection mold die, JSME Int J Ser C **40**(4) 793-800 (Dec 1997), 9A536
Thermal error analysis for a CNC lathe feed drive system, Int J Machine Tools Manuf **39**(7) 1087-1101 (Jul 1999), 9A559
Tolerance analysis of machining fixture locators, J Manuf Sci Eng **121**(2) 273-281 (May 1999), 9A560
Basic geometric analysis of 3D chip forms in metal cutting - Part 2: Implications, Int J Machine Tools Manuf **39**(6) 965-983 (Jun 1999), 9A774
Effects of process parameters on material side flow during hard turning, Int J Machine Tools Manuf **39**(7) 1017-1030 (Jul 1999), 9A775
Geometric criteria for gouge-free three-axis milling of sculptured surfaces, J Mech Des **121**(2) 241-248 (Jun 1999), 9A776
Improving low carbon steel chip breakability by cryogenic chip cooling, Int J Machine Tools Manuf **39**(7) 1065-1085 (Jul 1999), 9A777
Kinematics analysis of the chipping process using the circular diamond saw blade, J Manuf Sci Eng **121**(2) 257-264 (May 1999), 9A778
Mechanics of saw-tooth chip formation in metal cutting, J Manuf Sci Eng **121**(2) 163-172 (May 1999), 9A779
Modeling of temperature and forces when orthogonally machining hardened steel, Int J Machine Tools Manuf **39**(6) 885-903 (Jun 1999), 9A780
Modeling surface texture in the peripheral milling process using neural network, spline, and fractal methods with evidence of chaos, J Manuf Sci Eng **121**(2) 251-256 (May 1999), 9A781
Angle-based position detection method for precision machines, JSME Int J Ser C **42**(1) 44-48 (Mar 1999), 9A1025
Monitoring of tool wear states in turning based on wavelet analysis, JSME Int J Ser C **40**(3) 447-453 (Sep 1997), 9A1038
Optimal control of CNC cutting process, Chinese J Mech Eng **12**(1) 18-26 (Mar 1999), 10A457
Milling cutter breakage detection by the discrete wavelet transform, Mechatronics **9**(3) 225-234 (Apr 1999), 10T467
Measuring method of thermal displacement for machine tools at high-speed spindle rotation (Japanese), J Japan Soc Precision Eng **65**(3) 396-400 (Mar 1999), 10T494
Analysis of fuzzy dynamic characteristics of machine cutting process: Fuzzy stability analysis in regenerative-type-chatter, Int J Machine Tools Manuf **39**(8) 1299-1309 (Aug 1999), 10A801
Analyzing the process behavior of abrasive reaming using an experimental approach, Int J Machine Tools Manuf **39**(8) 1311-1325 (Aug 1999), 10A802
Computational technique applied to high-speed machining under adiabatic strain localization conditions, Comput Methods Appl Mech Eng **171**(3-4) 445-461 (Apr 1999), 10A803
Effect of heat treatment on the drilling performance of aluminium-SiC MMC, Appl Composite Mat **6**(2) 121-138 (Mar 1999), 10A804
Elliptical vibration cutting - 2nd Report: Study on effects of vibration conditions (Japanese), J Japan Soc Precision Eng **65**(3) 411-417 (Mar 1999), 10A805
Experimental investigation of rotary ultrasonic face milling, Int J Machine Tools Manuf **39**(8) 1327-1344 (Aug 1999), 10A806
Mechanistic cutting force model in band sawing, Int J Machine Tools Manuf **39**(8) 1185-1197 (Aug 1999), 10A807
Automation of centered micro hole drilling using a magnetically levitated table, Int J Machine Tools Manuf **39**(9) 1409-1426 (Sep 1999), 11A426
Thermal error mode analysis and robust modeling for error compensation on a CNC turning center, Int J Machine Tools Manuf **39**(9) 1367-1381 (Sep 1999), 11A451
Analysis of chip breaking during orthogonal machining of A1-SiCp composites, J Mat Processing Tech **88**(1-3) 90-96 (Apr 1999), 11A706
Cutting temperature - Prediction and measurement methods: A review, J Mat Processing Tech **88**(1-3) 195-202 (Apr 1999), 11A707
Effects of high-pressure assistant-gas flow on high-power CO_2 laser cutting, J Mat Processing Tech **88**(1-3) 57-66 (Apr 1999), 11A708
Elliptical vibration cutting - 3rd Report: Application to 3D cutting and investigation of practical effects (Japanese), J Japan Soc Precision Eng **65**(4) 586-591 (Apr 1999), 11A709
Empirical equation for crack formation in the laser cutting of ceramic plates, J Mat Processing Tech **88**(1-3) 154-158 (Apr 1999), 11A710
Material-removal-rate analysis in the ultrasonic machining of engineering ceramics, J Mat Processing Tech **88**(1-3) 180-184 (Apr 1999), 11A711
Machined surface properties of C-C composite material - Part I: Machined surface properties and built-up residue on plain-woven composite surface (Japanese), J Japan Soc Precision Eng **65**(5) 719-724 (May 1999), 12T541
Computer aided inspection of drill point geometry - Part II: A simple inspection method by using CCD camera (Japanese), J Japan Soc Precision Eng **65**(5) 736-740 (May 1999), 12A547
Cuttability investigation of coated carbides, Mat Manuf Processes **14**(4) 559-580 (1999), 12T725
Development of a tougher grade of polycrystalline diamond cutting tool, Int J Japan Soc Precision Eng **33**(1) 6-9 (Mar 1999), 12A726
Development of ultra high speed milling machine using reciprocating layer cutter path (Japanese), J Japan Soc Precision Eng **65**(5) 714-718 (May 1999), 12A727
Drilling unidirectional glass fiber-reinforced composite materials at high speed, J Composite Mat **33**(9) 827-851 (1999), 12A728
Experimental investigation of the influence of adhesion on the frictional conditions in the cutting process, Trib Int **32**(1) 15-23 (Jan 1999), 12T729
Integration of an open architecture controller with a diamond turning machine, Mechatronics **9**(4) 349-361 (Jun 1999), 12A730
Micro-macro studies in mechanical behavior of manufacturing materials, J Mech Behavior Mat **10**(2) 61-134 (1999), 12T731
Multi-axis control using model matching method of feed drive systems for CNC machine tools (Japanese), J Japan Soc Precision Eng **65**(5) 704-708 (May 1999), 12A732
Trepanning on unidirectional composites: Delamination studies, Composites Part A Appl Sci and Manuf **30A**(8) 951-959 (1999), 12A733

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Applied mechanics in grinding - VI: Residual stresses and surface hardening by coupled thermo-plasticity and phase transformation, Int J Machine Tools Manuf **38**(10-11) 1289-1304 (Oct-Nov 1998), 1A801
Development of grinding fluids with non-chlorine extreme-pressure agents: Development of grinding fluids soft for environment (Japanese), J Japan Soc Precision Eng **64**(6) 918-922 (Jun 1998), 1A802
Influence of contact loss between workpiece and grinding wheel on the roundness errors in centerless grinding, Int J Machine Tools Manuf **38**(10-11) 1371-1398 (Oct-Nov 1998), 1A803
Investigation of the transient thermal deflection and stresses of the workpiece in surface grinding with the application of a cryogenic magnetic chuck, J Mat Processing Tech **79**(1-3) 177-184 (Jul 1998), 1A1363
Chemo-mechanical polishing (CMP) of Si_3N_4 bearing balls with water based CeO_2 slurry, J Eng Mat Tech **120**(4) 304-312 (Oct 1998), 2A797
Development of key-technology on the state-of-the-art machine tool and generalization of grinding forces under ductile mode grinding experiments, Int J Japan Soc Precision Eng **32**(2) 98-103 (Jun 1998), 2A798
Edge fracture characteristics of abrasive grain, J Manuf Sci Eng **120**(4) 708-714 (Nov 1998), 2A799
Simulation of ground surface profile generation with measured distribution of mounting spring constant, dimensional position and shape of abrasive grains, J Japan Soc Precision Eng **64**(7) 1072-1077 (Jul 1998), 2A800
Theoretical analysis of heat partition and temperatures in grinding, J Trib **120**(4) 789-794 (Oct 1998), 2A801
Effect of CBN grinding on the bending strength of carburized gears, J Mech Des **120**(4) 606-611 (Dec 1998), 3A709
Fast time constant estimation for plunge grinding process control, Int J Machine Tools Manuf **39**(1) 143-156 (Jan 1998), 3A710
Model for heat transfer in grinding, Nonlinear Anal **35**(2) 233-246 (Jan 1999), 3A711
Theory of center offset and its application in cutter manufacture, J Mat Processing Tech **83**(1-3) 217-222 (Nov 1998), 3A712
Workpiece temperature, fluid cooling effectiveness and burning threshold of grinding energy in creep feed grinding, Proc Inst Mech Eng J Eng Manuf **212**(B5) 383-391 (1998), 3A713
Wear and self-sharpening of vitrified bond diamond wheels during sapphire grinding, Wear **219**(1) 42-45 (Aug 1998), 3A932
Analysis of the behavior of conventional grinding wheel as a function of the machining parameters and the bond kind (Spanish), J Brazilian Soc Mech Sci **20**(3) 390-399 (Sep 1998), 4A748
Evaluation of loading behavior of grinding wheel based on working surface topography (Japanese), J Japan Soc Precision Eng **64**(9) 1320-1324 (Sep 1998), 4A749
Influence of grinding process on forced vibration damping in headstock of grinding wheel of cylindrical grinder, Int J Machine Tools Manuf **39**(2) 229-235 (Feb 1999), 4A750
Study on ultra-precision grinding of micro aspherical surface - 3rd Report: Micronizing of aspherical surface in inclined rotational grinding (Japanese), J Japan Soc Precision Eng **64**(9) 1350-1354 (Sep 1998), 4A751
Surface finishing and chip formation resulting from electrolytic in-process grinding, J Xi'an Jiaotong Univ **32**(10) 39-42 (1998), 4A752
Transmission characteristics of acoustic emission from grinding process (Chinese), J Beijing IT **18**(4) 415-419 (Aug 1998), 5A273
Minimization of effect of CBN wheel wear on ground gear errors, Int J Machine Tools Manuf **39**(4) 607-626 (Apr 1999), 5A417
Development of tool grinding CAD-CAM system for conicoid end mill, J Japan Soc Precision Eng **64**(10) 1456-1460 (Oct 1998), 5A630
Study on the grinding of P-M high speed steel ASP60, Int J Machine Tools Manuf **39**(4) 627-638 (Apr 1999), 5A631
Workholding stability in shoe centerless grinding, J Manuf Sci Eng **121**(1) 41-48 (Feb 1999), 6A103
Residual stresses and workpiece deformation due to polishing and plating of computer hard disk substrates, J Manuf Sci Eng **121**(1) 32-40 (Feb 1999), 6A576
Characteristics of mirror surface grinding of dental Nickel-Titanium alloy using electrolytic in-process dressing, Int J Japan Soc Precision Eng **32**(3) 183-187 (Sep 1998), 6A813
Design and analysis of a polypropylene hub CBN wheel to supress grinding chatter, J Manuf Sci Eng **121**(1) 28-31 (Feb 1999), 6A814
Effective thermal properties of grinding wheels and grains, Proc Inst Mech Eng J Eng Manuf **212**(B8) 661-669 (1998), 6A815
Fixed-load electrolytic dressing with bronze bonded grinding wheels, J Manuf Sci Eng **121**(1) 20-27 (Feb 1999), 6A816
Intelligent optimization of grinding processes using fuzzy logic, Proc Inst Mech Eng J Eng Manuf **212**(B8) 647-660 (1998), 6A817
Non-magnetic fluid grinding, Wear **223**(1-2) 7-12 (Dec 1998), 6A818
Study on the round-off truing using the circular motion of CNC grinding machine: Computer simulation of the truing process, J Japan Soc Precision Eng **64**(11) 1669-1673 (Nov 1998), 6A819
Definition of the topography of grit-blasted surfaces for plasma sprayed alumina coatings, J Manuf Sci Eng **121**(1) 49-53 (Feb 1999), 6A1089
Modeling surface roughness improvement in grinding, Proc Inst Mech Eng J Eng Manuf **213**(B1) 93-96 (1999), 7A679
Study of grading mechanism by the Markov type grinding model: Application of grinding matrix (Japanese), J Soc Mat Sci Japan **47**(12) 1264-1269 (Dec 1998), 7A680
Effect of ELID grinding on the flexural strength of silicon nitride, Int J Machine Tools Manuf **39**(5) 839-853 (May 1999), 8A708
Evolution in grinding: Aiming for the maximum limits in efficiency and precision: From micron to nano and from high speed to ultra high speed (Japanese), J Japan Soc Precision Eng **65**(1) 31-36 (Jan 1999), 8T709
Highly efficient and precision fabrication of cylindrical parts from hard materials with the application of electrolytic in-process dressing, Mat Manuf Processes **14**(1) 1-12 (1999), 8A710
Hyperchaotic qualities of the ball motion in a ball milling device, Chaos **9**(1) 219-226 (Mar 1999), 8A711
Zero error tracking algorithm for grind-machining (Chinese), J Huazhong Univ Sci Tech **26**(12) 13-15 (Dec 1998), 8A712
Centerless grinding systems stability, J Manuf Sci Eng **121**(2) 157-162 (May 1999), 9A90
Characteristics of ELID surface grinding by fine abrasive metal-resin bonded wheel, Int J Japan Soc Precision Eng **32**(4) 273-274 (Dec 1998), 9T782
Computer simulations in abrasive grinding process, Int J Japan Soc Precision Eng **32**(4) 233-238 (Dec 1998), 9A783
Development of expert system for process planning in grinding with grinding center, Int J Japan Soc Precision Eng **32**(4) 260-266 (Dec 1998), 9A784
Study on dynamical investigation of OD-blade cutting utilizing vibration in vertical direction, Int J Japan Soc Precision Eng **32**(4) 254-259 (Dec 1998), 9A785
Grinding induced subsurface cracks in silicon wafers, Int J Machine Tools Manuf **39**(7) 1103-1116 (Jul 1999), 9A796
Applied mechanics in grinding - Part 7: Residual stresses induced by the full coupling of mechanical deformation, thermal deformation and phase transformation, Int J Machine Tools Manuf **39**(8) 1285-1298 (Aug 1999), 10A808
Effect of machine stiffness on grinding of silicon nitride, Int J Machine Tools Manuf **39**(8) 1263-1283 (Aug 1999), 10A809
Determination of oscillation conditions for optimizing surface roughness in internal grinding (Japanese), J Japan Soc Precision Eng **65**(4) 604-609 (Apr 1999), 11A712
Shape prediction during the cylindrical traverse grinding of a slender workpiece, J Mat Processing Tech **88**(1-3) 23-32 (Apr 1999), 11A713
Simulation of diamond grinding wheel to characterize the surface topography (Japanese), J Japan Soc Precision Eng **65**(4) 581-585 (Apr 1999), 11A714
Feed rate optimization and depth of cut control for productivity and part parallelism in grinding, Mechatronics **9**(5) 447-462 (Aug 1999), 12A734
High efficiency and precision grinding of ferrite with the application of electrolytic in-process dressing, Int J Japan Soc Precision Eng **33**(1) 37-39 (Mar 1999), 12A735
Increase of rigidity on vertical guideway of surface grinder by intermittent holding mechanism with PZT (Japanese), J Japan Soc Precision Eng **65**(5) 699-703 (May 1999), 12A736
Mechanical and thermal effects in grinding of advanced ceramics, Int J Japan Soc Precision Eng **33**(1) 32-36 (Mar 1999), 12A737
New dressing method for superabrasive wheels utilizing magnetic abrasive polishing, Int J Japan Soc Precision Eng **33**(1) 27-31 (Mar 1999), 12A738

272J. Casting

Gelcast tooling: Net shape casting and Green machining, Mat Manuf Processes **13**(3) 389-403 (1998), 1T804
Effect of flyash addition on the quality of Al-11%Si alloy casting produced by V-process, J Manuf Sci Eng **120**(4) 722-727 (Nov 1998), 2A802
Modeling of solidification structure of continuous cast steel, Model Simulation Mat Sci Eng **6**(3) 237-249 (May 1998), 2A803
Thermal stress development during vacuum arc remelting and permanent mold casting of ingots, J Manuf Sci Eng **120**(4) 755-763 (Nov 1998), 2A804
Modeling of interface heat exchange between casting bar and graphite sleeve of horizontal continuous casting (Chinese), J Xi'an Jiaotong Univ **32**(7) 90-93 (1998), 3A714
Three-dimensional BE approach to confined free surface flow as applied to die casting, Eng Anal Boundary Elements **22**(2) 83-102 (Sep 1998), 3A715
Steady state thermal model for the hot chamber injection system in the pressure die casting process, J Mat Processing Tech **82**(1-3) 27-45 (Oct 1998), 3A1288
Finite element solution of the 3D mold filling problem for viscous incompressible fluid, Comput Methods Appl Mech Eng **163**(1-4) 359-371 (Sep 1998), 4A753
Runner-optimization design study of a die-casting die, J Mat Processing Tech **84**(1-3) 1-12 (Dec 1998), 4A754
Stationary and stability analysis of the film casting process, J Non-Newtonian Fluid Mech **79**(2-3) 563-583 (Nov 1998), 4A755
Advanced foundry method for the light alloy metal matrix composites based on a chemically activated wetting, Mat Manuf Processes **13**(6) 801-810 (1998), 5T632
Optimal position for the injection gate of a die-casting die, J Mat Processing Tech **86**(1-3) 87-100 (Feb 1999), 6A820
Precision casting of functional metallic part by stereolithography (Chinese), J Xi'an Jiaotong Univ **32**(12) 55-58 (1998), 6A821
Projection of steel wire producing technology beyond the continuous-casting of an ingot using a direct combination of casting and metal forming, J Mat Processing Tech **86**(1-3) 278-290 (Feb 1999), 6A822
Study on shrinkage porosity criterion under pressure conditions (Chinese), J Tsinghua Univ Sci Tech **38**(8) 54-56 (Aug 1998), 6A823
Study on the method to increase the calculating velocity of casting fluid field (Chinese), J Huazhong Univ Sci Tech **26**(10) 48-50 (Oct 1998), 6A824
Mathematical analysis and optimization of infiltration processes, J Sci Comput **13**(3) 303-321 (Sep 1998), 6A1476
Improved error bound for a FE approximation of a model for phase separation of a multi-component alloy, IMA J Numer Anal **19**(1) 147-168 (Jan 1999), 7A681
Study on numerical simulation of mold-filling and solidification processes of shaped casting, Chinese J Mech Eng **12**(1) 4-10 (Mar 1999), 10A810
Simulation of Materials Processing: Theory, Methods and Applications (Balkema, Rotterdam, Netherlands, 1998) 11N23
Modeling the pressure die casting process using a hybrid finite-BE model, Int J Numer Methods Eng **45**(9) 1165-1185 (Jul 1999), 12A739
Numerical and experimental determination of the feeding distance of aluminum alloys in gravity die casting using an optimized riser shape, Mat Manuf Processes **14**(4) 601-619 (1999), 12T740

272K. High deformation rate forming

Identification and control strategy for a liquid composite molding process, Appl Math Model **22**(4-5) 207-218 (Apr-May 1998), 1A435

Structural frame and setting technology in virtual die and mold CAD-CAE-CAM system (Chinese), J Shanghai Jiaotong Univ **32**(5) 23-27 (May 1998), 1A1049

Dynamic analysis of two types of over-crank guillotine shears: A comparative study, J Mat Processing Tech **83**(1-3) 54-61 (Nov 1998), 3A33

Elimination of integral singularity in BEM for cooling simulation of injection molds, J Huazhong Univ Sci Tech **26**(S1) 28-30 (May 1998), 4A53

Investigation of high-speed forming of circular plates in a liquid shock tube, Int J Impact Eng **21**(9) 801-816 (Oct 1998), 4A756

Numerical analysis of thermal run system in injection molds, J Huazhong Univ Sci Tech **26**(7) 100-102 (Jul 1998), 4A757

Suitability of laminar flow assumption for numerical simulation of mold filling (Chinese), J Xi'an Jiaotong Univ **32**(11) 100-103 (1998), 5A633

Eigenfrequency analysis method of sandwich injection moldings (Japanese), J Soc Mat Sci Japan **47**(12) 1287-1291 (Dec 1998), 7A682

Effects of contact pressure and strain on friction in sheet-metal forming, Trib Trans **42**(1) 144-151 (Jan 1999), 8A713

Computer simulation of superplastic blow-forming in a conical closed-die considering uniform thinning, JSME Int J Ser A **41**(1) 16-24 (Jan 1998), 10A811

Force control with servomechanism in fully electric injection molding machine (Japanese), J Japan Soc Precision Eng **65**(4) 542-548 (Apr 1999), 11A441

Simulation of the packing stage of viscoelastic polymer melt under non-isothermal conditions (Chinese), J Shanghai Jiaotong Univ **33**(2) 214-218 (Feb 1999), 11A715

272L. Residual stresses

Numerical simulation of residual stresses caused by quenching process in aluminium gas cylinders, J Eng Mat Tech **120**(4) 297-299 (Oct 1998), 2A642

Rapid thermal annealing of polysilicon thin films, J Microelectromechanical Syst 7(4) 356-364 (Dec 1998), 6A829

Residual stresses in galvanizing, Mat Manuf Processes **14**(3) 413-426 (1999), 11T716

Characterization of a water peening process, J Eng Mat Tech **121**(3) 336-340 (Jul 1999), 12A741

Residual stresses and surface roughness in turning, J Eng Mat Tech **121**(3) 346-351 (Jul 1999), 12A742

272M. Wrapping and laying-up (composite materials)

Integrated product and process design for resin transfer molded parts, J Composite Mat **32**(13) 1244-1272 (1998), 1A487

Manufacturing and mechanical properties of glass bubbles-epoxy particulate composite, J Composite Mat **32**(15) 1356-1390 (1998), 1A607

Production and assessment of polycarbonate composites reinforced with vapor-grown carbon fibers, Composites Sci Tech **58**(3-4) 401-407 (Mar-Apr 1998), 1A613

Accelerated aging processes in SiC-7020 aluminium composite, J Mat Processing Tech **79**(1-3) 1-8 (Jul 1998), 1A805

Analysis of mechanisms governing fusion bonding of thermoplastic composites, J Thermoplastic Composite Mat **11**(4) 338-363 (Jul 1998), 1A806

Australian special issue on manufacturing processes and mechanical properties characterization of advanced composites, Composites Sci Tech **58**(2) 181-309 (Feb 1998), 1A807

Curing behavior of thick-sectioned RTM composites, J Composite Mat **32**(14) 1273-1296 (1998), 1A808

Experimental analysis of core crushing and core movement in RTM and SRIM foam cored composite parts, J Reinforced Plastics Composites **17**(11) 964-988 (1998), 1A809

Influence of design on mixing efficiency in the kneading disc region of co-rotating twin screw extruders, J Reinforced Plastics Composites **17**(12) 1076-1086 (1998), 1A810

Resistive susceptor design for uniform heating during induction bonding of composites, J Thermoplastic Composite Mat **11**(4) 321-337 (Jul 1998), 1A811

Selected papers presented at the Fifth International Conference on automated composites, Glasgow, UK: September 4-5 1997, Composites Part A Appl Sci and Manuf **29A**(7) 711-865 (1998), 1A812

Dynamics of gas-assisted injection molding process, J Reinforced Plastics Composites **17**(12) 1087-1095 (1998), 1A1142

Computer modeling of the rotational molding process, J Reinforced Plastics Composites **17**(14) 1307-1318 (1998), 2A569

Strength prediction of RTM single-lap joints with transverse stitching, J Eng Mat Tech **120**(4) 300-303 (Oct 1998), 2A661

Filament winding technology: A numerical simulation and experimental validation of the winding and curing phases, Sci Eng Comp Mat 7(3) 215-222 (1998), 2A805

Gradient foam core materials for sandwich structures: Preparation and characterization, Composites Part A Appl Sci and Manuf **29A**(8) 981-988 (1998), 2A806

Manufacture of aramid fiber reinforced nylon-12 by dry powder impregnation process, Composites Part A Appl Sci and Manuf **29A**(8) 933-938 (1998), 2A807

Net shape forming of electromagnetically elaborated semisolid metal matrix composites, Sci Eng Comp Mat 7(3) 223-229 (1998), 2A808

Spring-in study of the aileron rib manufactured from advanced thermoplastic composite, Composites Part A Appl Sci and Manuf **29A**(8) 973-979 (1998), 2A809

Three-dimensional model for a multilayered body loaded normally and tangentially against a rigid body: Application to specific coatings, J Trib **120**(4) 668-676 (Oct 1998), 2A810

Towards pultrusion process optimization using artificial neural networks, J Mat Processing Tech **83**(1-3) 131-141 (Nov 1998), 3A434

Comparison of measurements and modeling for pultrusion of a fiberglass-epoxy I-beam, J Reinforced Plastics Composites **17**(17) 1557-1579 (1998), 3A716

Effect of operating parameters and screw configuration on residence time distribution, J Reinforced Plastics Composites **17**(15) 1338-1349 (1998), 3A717

Experimental analysis of mold filling in compression resin transfer molding, J Reinforced Plastics Composites **17**(16) 1414-1430 (1998), 3A718

Manufacturing and characteristics of glass reinforced PTFE, J Reinforced Plastics Composites **17**(17) 1496-1506 (1998), 3A719

Runner design with minimum volume for multicavity injection molds - Part I: Runner sizing, J Reinforced Plastics Composites **17**(15) 1350-1362 (1998), 3A720

Runner design with minimum volume for multicavity injection molds - Part II: Runner layout, J Reinforced Plastics Composites **17**(15) 1363-1373 (1998), 3A721

Sandwich injection molding technology: Effects and limiting quantities for the spatial distribution of the components, J Reinforced Plastics Composites **17**(16) 1404-1413 (1998), 3A722

Simulation of compression resin transfer molding with displacement control, J Reinforced Plastics Composites **17**(17) 1525-1556 (1998), 3A723

Visualization of injection molding, J Reinforced Plastics Composites **17**(15) 1374-1381 (1998), 3A724

Model for unsaturated flow in woven fiber preforms during mold filling in resin transfer molding, J Composite Mat **32**(19) 1752-1783 (1998), 3A1127

Computer integrated manufacturing system for rotational parts, Int J Comput Integrated Manuf **11**(6) 534-547 (Nov-Dec 1998), 4A482

Investigation of the squeeze flow behavior of sheet molding compounds (SMC), Composites Part A Appl Sci and Manuf **29A**(12) 1569-1577 (1998), 4A758

New thermoplastic composite preforms based on split-film warp-knitting, Composites Part A Appl Sci and Manuf **29A**(12) 1511-1523 (1998), 4A759

Nonlinear FE analysis of filament-wound case, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 20-26 (Jun 1998), 4A760

Wear studies of tungsten carbide cutting tools using micro-beam techniques, J Trib **121**(1) 177-184 (Jan 1999), 4A938

Quantitative analysis of the resin transfer molding process, J Composite Mat **32**(20) 1865-1892 (1998), 4A1172

Intelligent control of the thermoplastic composite tow-placement process, J Thermoplastic Composite Mat **11**(6) 573-595 (Nov 1998), 5A407

Design, manufacture, and characterization of composites using on-line recycled thermoplastic powder impregnation of fibers and in-situ filament winding, J Thermoplastic Composite Mat **11**(6) 533-572 (Nov 1998), 5A634

Recent developments encompassing non-isothermal and isothermal liquid composite molding process modeling-analysis: Physically accurate, computationally effective, and affordable simulations and validations, J Thermoplastic Composite Mat **11**(6) 493-532 (Nov 1998), 5A635

Inverse problems in resin transfer molding, J Composite Mat **32**(24) 2178-2202 (1998), 5A1051

Compression molding of glass and polypropylene composites for optimized macro- and micro-mechanical properties - 1: Commingled glass and propropylene, Composites Sci Tech **58**(12) 1879-1898 (Dec 1998), 6A825

Fabrication of metal matrix composite by infiltration process - Part 2: Experimental study, J Mat Processing Tech **86**(1-3) 152-158 (Feb 1999), 6A826

Manufacturing and property analysis of a novel class of 3D woven composites, J Thermoplastic Composite Mat **12**(1) 70-82 (Jan 1999), 6A827

Processing effects on the engineering properties of cast metal-matrix composites, Adv Performance Mat **5**(3) 213-255 (Dec 1998), 6A828

Fluid coating on a fiber, Annu Rev Fluid Mech **31** 347-384 (1999), 7A683

Modeling of carbon-carbon composite manufacturing processes, Composites Part A Appl Sci and Manuf **30A**(3) 221-230 (1999), 8A580

Crystallinity of on-line consolidated thermoplastic composites, J Composite Mat **33**(4) 306-324 (1999), 8A714

Design and fabrication of 3D multi-layer woven T-section reinforcements, Composites Part A Appl Sci and Manuf **30A**(3) 213-220 (1999), 8A715

Mechanisms of wrinkle formation during the processing of composite laminates, Composites Sci Tech **59**(3) 405-417 (Feb-Mar 1999), 8A716

pvT and thermal shrinkage for the injection molding of a plastic lens, J Reinforced Plastics Composites **18**(3) 261-270 (1999), 8A717

Simulation study on the effects of particle size on the consolidation of polymer powder impregnated tapes, Composites Part A Appl Sci and Manuf **30A**(3) 325-337 (1999), 8A718

Stress and plastic strain fields during unconstrained and constrained fabrication cool down of fiber-reinforced IMCs, J Composite Mat **33**(4) 351-376 (1999), 8A719

Early history of the resin transfer molding process for aerospace applications, Composites Part A Appl Sci and Manuf **30A**(5) 619-621 (1999), 9A786

Pultrusion of thermoplastic composites - Process optimization and mathematical modeling, J Thermoplastic Composite Mat **12**(2) 96-120 (Mar 1999), 9A787

Quantitative characterization of porous materials in polymer processing, Composites Sci Tech **59**(4) 495-504 (Mar 1999), 9A1097

Analysis of the relationship between processing conditions, fiber orientation, final properties in short fiber reinforced polypropylene, J Reinforced Plastics Composites **18**(5) 413-420 (1999), 10A624

Compression molding of glass and polypropylene composites for optimized macro- and micro-mechanical properties - II: Glass-mat-reinforced thermoplastics, Composites Sci Tech **59**(5) 709-726 (Apr 1999), 10A812

Consolidation of powder impregnated-sheath surrounded thermoplastic composite bundles, Adv Composites Letters **8**(1) 33-38 (1999), 10A813

The draping of woven fabric performs and prepregs for production of polymer composite components, Composites Part A Appl Sci and Manuf **30A**(6) 757-765 (1999), 10A814

Impregnation model for the consolidation of thermoplastic composites made from commingled yarns, J Composite Mat **33**(8) 751-772 (1999), 10A815

Phenomenological model for flow-induced crystallization, J Reinforced Plastics Composites **18**(5) 464-471 (1999), 10A816

Radial flow permeability measurement - Part A: Theory, Composites Part A Appl Sci and Manuf **30A**(6) 781-796 (1999), 10A817

Radial flow permeability measurement - Part B: Application, Composites Part A Appl Sci and Manuf **30A**(6) 797-813 (1999), 10A818

Use of Darcy permeability in sheared fabrics, J Reinforced Plastics Composites **18**(5) 472-484 (1999), 10A819

Thermoelastic model for in-situ consolidation of thermoplastic composites, J Thermal Stresses **22**(3) 305-329 (Apr 1999), 10A1399

Characterization of LDPE residual matrix deposited on glass fibers by a dissolution-reprecipitation recycling process, Composites Part A Appl Sci and Manuf **30A**(7) 831-838 (1999), 11A524

Determination of winding tension for prescribed in-roll stress distributions of wound rolls, J Chinese Soc Mech Eng **20**(2) 169-181 (Apr 1999), 11A717

Extensional viscosity modeling for injection molding simulation, J Reinforced Plastics Composites **18**(6) 499-507 (1999), 11A718

Fabrication and pressure testing of a gas-turbine component manufactured by a preceramic-polymer-impregnation method, Composites Sci Tech **59**(6) 853-859 (May 1999), 11A719

Numerical approach to the modeling of polymer curing in fiber-reinforced composites, Composites Sci Tech **59**(7) 1003-1013 (May-Jun 1999), 11A720

Finite element analysis of the effect of processing conditions on thermoforming, J Reinforced Plastics Composites **18**(7) 673-682 (1999), 12A35

Aluminum dross particles as cost effective reinforcement for aluminum composites, Mat Manuf Processes **14**(4) 509-524 (1999), 12T743

Compression molding of glass and polypropylene composites for optimized macro- and micro-mechanical properties - Part 3: Sandwich structures of GMTs and commingled fabrics, Composites Sci Tech **59**(8) 1153-1167 (Jun 1999), 12A744

Computer simulation of the inflation process in blow molding, J Reinforced Plastics Composites **18**(8) 759-774 (1999), 12A745

Curing of thick angle-bend thermoset composite part: Curing cycle effect on thickness variation and fiber volume fraction, J Reinforced Plastics Composites **18**(8) 702-723 (1999), 12A746

Joining of TiB_2-Al_2O_3 using compositionally graded interlayers, Mat Manuf Processes **14**(4) 537-546 (1999), 12T747

Preliminary study on composite hip prostheses made by resin transfer molding, J Composite Mat **33**(9) 852-870 (1999), 12A748

Simulations and applications of injection-compression molding, J Reinforced Plastics Composites **18**(8) 724-734 (1999), 12A749

Tow placement studies for liquid composite molding, Composites Part A Appl Sci and Manuf **30A**(9) 1105-1121 (1999), 12A750

Aqueous sol-gel coating of pitch-based graphite fibers for inclusion in aluminum matrix composites, Mat Manuf Processes **14**(4) 489-507 (1999), 12T980

Modeling of heat transfer in thermoplastic composites manufacturing: Double-belt press lamination, Composites Part A Appl Sci and Manuf **30A**(8) 935-943 (1999), 12A1285

272N. Powder metallurgy

Gelcast tooling: Net shape casting and Green machining, Mat Manuf Processes **13**(3) 389-403 (1998), 1T804

Numerical modeling of large deformation in metal powder forming, Comput Methods Appl Mech Eng **159**(3-4) 291-328 (Jul 1998), 1A813

Simulation of metal powder compaction, for the development of a knowledge based powder metallurgy process advisor, J Mat Processing Tech **79**(1-3) 94-100 (Jul 1998), 1A814

Characteristics of laser-fabricated metal structures, Mat Manuf Processes **13**(4) 537-554 (1998), 2A811

Densification behavior and grain growth of zirconia powder compact under high temperature, Int J Eng Sci **36**(11) 1295-1312 (Sep 1998), 2A812

Ring test for P-M materials, J Manuf Sci Eng **120**(4) 764-769 (Nov 1998), 2A813

Rhenium-97: Milestones, Status, and Outlook, Mat Manuf Processes **13**(5) 645-782 (1998), 3A725

Model for compaction of metal powders, Int J Mech Sci **41**(2) 121-141 (Feb 1999), 4A562

Research on intelligent powder compaction press (Chinese), J Huazhong Univ Sci Tech **26**(8) 38-40 (Aug 1998), 4A761

Improved metal wear after dynamic treatment by powder impact, Mat Manuf Processes **13**(6) 931-937 (1998), 5A636

Proceedings of the International Workshop on Industrial Applications of Explosion, Shock-Wave and High Pressure Phenomena, J Mat Processing Tech **85**(1-3) 4-231 (Jan 1999), 6T284

Mathematical theory of plasticity for compressible P-M materials, J Mat Processing Tech **86**(1-3) 159-162 (Feb 1999), 6A553

Near-net-shape forming of 316L stainless steel powder under hot isostatic pressing, Int J Mech Sci **41**(7) 815-830 (Jul 1999), 7A684

Particle velocity, pressure and flushing phenomenon of fine powders, Appl Mech Eng **4**(S) 109-114 (1999), 11T721

Finite element analysis of compressible viscoplasticity using a three-field formulation: Application to metal powder hot compaction, Comput Methods Appl Mech Eng **175**(1-2) 19-40 (Jun 1999), 12A644

272P. Rapid solidification

Progress in Plasma Processing of Materials 1997 (Begell House, New York, 1997) 4N18

Vacuum forming of compound curved surfaces with a variable geometry mold, J Manuf Syst **17**(5) 325-337 (1998), 4A762

Rapid thermal annealing of polysilicon thin films, J Microelectromechanical Syst **7**(4) 356-364 (Dec 1998), 6A829

Heat Transfer Division - 1998, Volume 4: Heat Transfer in Material Processing (ASME, New York, 1998) 7N19

Numerical and experimental analysis of quench induced stresses and microstructures, J Mech Behavior Mat **9**(4) 237-256 (1998), 7A481

Transient thermal model for the hot chamber injection system in the pressure die casting process, Appl Math Model **23**(4) 255-277 (Apr 1999), 7A685

Application of fractal dimension to optimum deposition of NiCrAlY coating by D-gun spray, Mat Manuf Processes **14**(2) 195-204 (1999), 9T1026

Adaptive FE remeshing in a large deformation analysis of metal powder forming, Int J Numer Methods Eng **45**(7) 801-820 (Jul 1999), 12A751

272R. Microprocessing (eg by laser and ion beams)

Application of optical cutting method to measurement of tooth-profile error of minute module gears - 2nd Report: Measurements of total profile error, J Japan Soc Precision Eng **64**(6) 866-870 (Jun 1998), 1T815
Cavitation aided honing (Japanese), J Japan Soc Precision Eng **64**(6) 913-917 (Jun 1998), 1A816
Excimer laser surface treatment of sheet molding compound for adhesive bonding, Mat Manuf Processes **13**(3) 359-368 (1998), 1A817
Innovative laser-aided manufacturing of patterned stamping and cutting dies: Processing parameters, Mat Manuf Processes **13**(3) 369-387 (1998), 1T818
Micro-end-milling - I: Wear and breakage, Int J Machine Tools Manuf **38**(12) 1419-1436 (Dec 1998), 1A819
Micro-end-milling - II: Extending tool life with a Smart Workpiece Holder, Int J Machine Tools Manuf **38**(12) 1437-1448 (Dec 1998), 1A820
Micro-end-milling - III: Wear estimation and tool breakage detection using acoustic emission signals, Int J Machine Tools Manuf **38**(12) 1449-1466 (Dec 1998), 1A821
Improved surface-micromachined hinges for fold-out structures, J Microelectromechanical Syst **7**(3) 315-319 (Sep 1998), 2T543
Characteristics of laser-fabricated metal structures, Mat Manuf Processes **13**(4) 537-554 (1998), 2A811
Computer-aided profile optimization of ion-milled microstructures, Model Simulation Mat Sci Eng **6**(3) 251-260 (May 1998), 2A814
Ion beam etching for silicon field emission arrays (Chinese), J Huazhong Univ Sci Tech **26**(5) 88-90 (May 1998), 2A815
Study of parameters for CO_2 laser cutting process, Mat Manuf Processes **13**(4) 517-536 (1998), 2A816
Surface hardening of alloy steels using a high intensity electron beam, Mat Manuf Processes **13**(4) 555-564 (1998), 2T817
Thermal and efficiency analysis of the CO_2 laser cutting process, Opt Lasers Eng **30**(1) 93-106 (Jul 1998), 2A818
Analysis of the electrochemical spark machining process, Int J Machine Tools Manuf **39**(1) 165-186 (Jan 1998), 3A726
Assessment of waste streams in electric-discharge machining for environmental impact analysis, Proc Inst Mech Eng J Eng Manuf **212**(B5) 393-401 (1998), 3A727
Key techniques to multi-purpose NC machine tool for 3D laser processing (Chinese), J Huazhong Univ Sci Tech **26**(8) 16-17 (Aug 1998), 4A415
Estimation of heat conduction losses in laser cutting, Int J Machine Tools Manuf **39**(3) 431-458 (Mar 1999), 4A763
Finite element analysis of melting and solidifying processes in laser rapid prototyping of metallic powders, Int J Machine Tools Manuf **39**(2) 237-252 (Feb 1999), 4A764
Laser micro fabrication using green tape (Japanese), J Japan Soc Precision Eng **64**(9) 1340-1344 (Sep 1998), 4A765
Analysis of defect initiation process in machining monocrystal silicon using renormalization group molecular dynamics, J Japan Soc Precision Eng **64**(10) 1482-1486 (Oct 1998), 5A637
Flatness change of vacuum-chuck for ultra-precision machining due to thermal deformation - 2nd Report: Experimental study on mechanism of flatness change, J Japan Soc Precision Eng **64**(10) 1472-1476 (Oct 1998), 5T638
Fundamental geometry analysis of wire electrical discharge machining in corner cutting, Int J Machine Tools Manuf **39**(4) 651-667 (Apr 1999), 5A639
In situ thermocouples in macro-components fabricated using SALD and SALDVI techniques - II: Evaluation of processing parameters, Mat Manuf Processes **13**(6) 883-907 (1998), 5T640
Laser glazing of plasma sprayed Ni-Cr-Al-Y alloy, Mat Manuf Processes **13**(6) 829-839 (1998), 5T641
Microstructure and micromechanical properties of SiC-W multilayer films, Mat Manuf Processes **13**(6) 921-930 (1998), 5T642
Single point diamond turning of KDP inorganic nonlinear optical crystals for laser fusion, J Japan Soc Precision Eng **64**(10) 1487-1491 (Oct 1998), 5T643
Study of the flaw and compensation in laser carving (Chinese), J Huazhong Univ Sci Tech **26**(11) 53-55 (Nov 1998), 5A644
Thermo-electric model of material removal during electric discharge machining, Int J Machine Tools Manuf **39**(4) 669-682 (Apr 1999), 5A645
In situ thermocouples in macro-components fabricated using SALD and SALDVI techniques - I: Thermochemical modeling, Mat Manuf Processes **13**(6) 859-882 (1998), 5T1165
In situ thermocouples in macro-components fabricated using SALD and SALDVI techniques - III: Fabrication and properties of the SiC/C thermocouple device, Mat Manuf Processes **13**(6) 909-919 (1998), 5T1166
Micromachining in plastics using X-ray lithography for the fabrication of micro-electrophoresis devices, J Biomech Eng **121**(1) 13-21 (Feb 1999), 5A1569
Advanced deep reactive ion etching: A versatile tool for microelectromechanical systems, J Micromech Microeng **8**(4) 272-278 (Dec 1998), 6A432
Design of bulk micromachined suspensions, J Micromech Microeng **8**(4) 263-271 (Dec 1998), 6A434
Development of magnetic materials and processing techniques applicable to integrated micromagnetic devices, J Micromech Microeng **8**(4) 307-316 (Dec 1998), 6T436
Effects of post-deposition processes on polysilicon Young's modulus, J Micromech Microeng **8**(4) 330-337 (Dec 1998), 6T438
Issues associated with the design, fabrication and testing of a crystalline silicon ring gyroscope with electromagnetic actuation and sensing, J Micromech Microeng **8**(4) 284-292 (Dec 1998), 6A439
Microfabrication of linear translator tuning elements in submillimeter-wave integrated circuits, J Microelectromechanical Syst **7**(4) 404-410 (Dec 1998), 6T440
Microprocessing at the fingertips, J Micromech Microeng **8**(4) 251-262 (Dec 1998), 6A441
One-mask procedure for the fabrication of movable high-aspect-ratio 3D microstructures, J Micromech Microeng **8**(4) 279-283 (Dec 1998), 6A442
Resist dissolution rate and inclined-wall structures in deep x-ray lithography, J Micromech Microeng **8**(4) 293-300 (Dec 1998), 6T445
Structural and mechanical properties of polycrystalline silicon germanium for micromachining applications, J Microelectromechanical Syst **7**(4) 365-372 (Dec 1998), 6T447
Direct manufacturing of metallic model by laser rapid prototyping, Int J Japan Soc Precision Eng **32**(3) 221-222 (Sep 1998), 6T478
Characteristics of mirror surface grinding of dental Nickel-Titanium alloy using electrolytic in-process dressing, Int J Japan Soc Precision Eng **32**(3) 183-187 (Sep 1998), 6A813
Rapid thermal annealing of polysilicon thin films, J Microelectromechanical Syst **7**(4) 356-364 (Dec 1998), 6A829
Applications of laser surface processing for improving corrosion resistance (Chinese), J Tsinghua Univ Sci Tech **38**(12) 65-68 (Dec 1998), 6A830
Atomic-level material removal mechanism of graphite studied by STM and MD, J Japan Soc Precision Eng **64**(11) 1653-1657 (Nov 1998), 6A831
Development of a new palm-size spherical mirror-finish surface processing machine for the fabrication of optical fiber connectors, J Japan Soc Precision Eng **64**(11) 1648-1652 (Nov 1998), 6A832
Injection-molded fiber ribbon connectors for parallel optical links fabricated by the LIGA technique, J Micromech Microeng **8**(4) 301-306 (Dec 1998), 6T833
Material response to laser pulse heating: A kinetic theory approach, Opt Lasers Eng **30**(3-4) 327-350 (Sep-Oct 1998), 6A834
Mechanochemical polishing of Si wafer using $BaCO_3$ coated lapping tape, Int J Japan Soc Precision Eng **32**(3) 194-195 (Sep 1998), 6T835
Sacrificial layer process with laser-driven release for batch assembly operations, J Microelectromechanical Syst **7**(4) 416-422 (Dec 1998), 6T836
Thermal modeling of cutting front edge dynamic behavior in high-power reactive CO_2 laser cutting, Proc Inst Mech Eng J Eng Manuf **212**(B7) 555-570 (1998), 6A837
Thermohydrodynamics analysis of fusion phenomena accompanied by evaporation due to laser irradiation, Int J Japan Soc Precision Eng **32**(3) 196-197 (Sep 1998), 6T838
Transient liquid crystal thermometry of microfabricated PCR vessel arrays, J Microelectromechanical Syst **7**(4) 345-355 (Dec 1998), 6T839
Heat Transfer Division - 1998, Volume 4: Heat Transfer in Material Processing (ASME, New York, 1998) 7N19
Lapping of ceramic green balls formed by cold isostatic pressure process (Japanese), J Japan Soc Precision Eng **64**(12) 1816-1820 (Dec 1998), 7A425
Batch transfer of microstructures using flip-chip solder bonding, J Microelectromechanical Syst **8**(1) 27-33 (Mar 1999), 8T720
Curve hole machining by self-movable mechanism with electrical discharge machining function: Development of automatic discharge gap controller (Japanese), J Japan Soc Precision Eng **65**(2) 245-249 (Feb 1999), 8A721
Dot matrix hardening of steels using a fiber optic coupled pulsed Nd:YAG laser, Mat Manuf Processes **14**(1) 53-65 (1999), 8T722
Electrical discharge machining by local machining station method (Japanese), J Japan Soc Precision Eng **65**(2) 224-228 (Feb 1999), 8A723
Fabrication and characterization of surface micromachined capacitive ultrasonic immersion transducers, J Microelectromechanical Syst **8**(1) 100-114 (Mar 1999), 8T724
Fusion zone miscrostructures of laser and plasma welded dissimilar steel joints, Mat Manuf Processes **14**(1) 37-52 (1999), 8T725
New micro EDM technique for fine complicated hole with triangular section electrode (Japanese), J Japan Soc Precision Eng **65**(1) 155-159 (Jan 1999), 8A726
Silicon-processed microneedles, J Microelectromechanical Syst **8**(1) 78-84 (Mar 1999), 8A727
Technical advances of polishing in the 20th century (Japanese), J Japan Soc Precision Eng **65**(1) 37-41 (Jan 1999), 8T728
Temperature and absorbtivity of workpiece in CO_2 laser processing, J Japan Soc Precision Eng **65**(1) 126-130 (Jan 1999), 8A729
Wall profile of thick photoresist generated via contact printing, J Microelectromechanical Syst **8**(1) 18-26 (Mar 1999), 8T730
Computer simulation of laser materials processing, Int J Japan Soc Precision Eng **32**(4) 243-247 (Dec 1998), 9A788
Computer simulation of microcutting, Int J Japan Soc Precision Eng **32**(4) 239-242 (Dec 1998), 9A789
Development of a micro drilling machine using voice coil motors - Part 2: Thrust controlled drilling, Int J Japan Soc Precision Eng **32**(4) 267-272 (Dec 1998), 9A790
Laser surface alloying of (pre-placed) SiC and Ni-SiC coating on commercially pure titanium, Mat Manuf Processes **14**(2) 285-296 (1999), 9T791
Mechanisms for hardening of carbon steel with a nanosecond high-energy, high-current electron beam, Mat Manuf Processes **14**(2) 205-216 (1999), 9T792
Micro cutting in the micro lathe turning system, Int J Machine Tools Manuf **39**(7) 1171-1183 (Jul 1999), 9A793
Molecular dynamics simulation on laser ablation of metal and silicon, Int J Japan Soc Precision Eng **32**(4) 248-253 (Dec 1998), 9A794
Study of abrasive waterjet cutting of metallic coated sheet steels, Int J Machine Tools Manuf **39**(6) 855-870 (Jun 1999), 9A939
Heat treatment using small power laser on-the-machine tool (Japanese), J Japan Soc Precision Eng **65**(3) 391-395 (Mar 1999), 10A820
Simulation of diamond-ground surfaces, Int J Machine Tools Manuf **39**(9) 1451-1470 (Sep 1999), 11A435
Electron beam technologies for preparation of polymeric materials used for waste water treatment, agriculture, and medicine, Mat Manuf Processes **14**(3) 347-364 (1999), 11T722
Finite element analysis for the characteristics of temperature and stress in micro-machining considering the size effect, Int J Machine Tools Manuf **39**(9) 1507-1524 (Sep 1999), 11A723
First and second generation electron beam surface engineering, Mat Manuf Processes **14**(3) 321-330 (1999), 11T724
Pulsed laser deposition of superhard nitride coatings, Mat Manuf Processes **14**(3) 397-411 (1999), 11T725
Research of centerless roller burnishing - 1st Report: Development of centerless roller burnishing equipment to finish an external surface without clamping device (Japanese), J Japan Soc Precision Eng **65**(4) 610-614 (Apr 1999), 11T726
Step height differences between simultaneously mirror-polished work surfaces composed of various materials: Study on super-smooth polishing methods - 1st Report (Japanese), J Japan Soc Precision Eng **65**(4) 575-580 (Apr 1999), 11A727
Combined electron beam and microwave treatment for flue gas purification, Mat Manuf Processes **14**(3) 365-382 (1999), 11T1619
Decreasing the optical path length in an optoelectronic module using silicon micromachining, J Micromech Microeng **9**(2) 127-129 (Jun 1999), 12T488
Designing, simulation and realization of in-plane operating microvalves using new etching techniques, J Micromech Microeng **9**(2) 194-198 (Jun 1999), 12T489
High aspect ratio UV photolithography for electroplated structures, J Micromech Microeng **9**(2) 105-108 (Jun 1999), 12T490
Technology and applications of micromachined adaptive mirrors, J Micromech Microeng **9**(2) R8-R19 (Jun 1999), 12T498
Laser processing of MMC layers on a metal base, Mat Manuf Processes **14**(4) 475-487 (1999), 12T752
Molecular dynamics study on the mechanism of nanometric surfacing of microcomposite material (Japanese), J Soc Mat Sci Japan **48**(4) 381-386 (Apr 1999), 12A753
Production of seismic mass suspensions in silicon by electro-discharge machining, J Micromech Microeng **9**(2) 206-210 (Jun 1999), 12T754
Repeatability aspects in surface micromachining: Investigations on polycrystalline silicon films, J Micromech Microeng **9**(2) 130-134 (Jun 1999), 12T755

272T. Ceramics, refractories, glasses

Incremental unknowns, multilevel methods and the numerical simulation of turbulence, Comput Methods Appl Mech Eng **159**(1-2) 123-189 (Jul 1998), 1A822
Magnetic field assisted finishing of ceramics - Part II: On the thermal aspects of magnetic float polishing of ceramic balls, J Trib **120**(4) 652-659 (Oct 1998), 2A819
Magnetic field assisted finishing of ceramics - Part III: On the thermal aspects of magnetic abrasive finishing of ceramic rollers, J Trib **120**(4) 660-667 (Oct 1998), 2A820
Ductile regime turning of single crystal silicon with a straight-nosed diamond tool (Japanese), J Japan Soc Precision Eng **64**(9) 1345-1349 (Sep 1998), 4A766
Processing flaws in PZT transducer rings, Smart Mat Struct **7**(6) 867-873 (Dec 1998), 6A840
Ceramic membranes: Manufacture, characterization and application in novel bioreactors (Spanish), Sci Eng J (Ciencia Eng) **7**(2) 16-20 (Jul-Dec 1998), 7T686
Study of manufacturing solid parts by laser sintering ceramic powder (Chinese), J Dalian Univ Tech **38**(6) 733-737 (Nov 1998), 8A731
Simulation of structural characteristics of ceramic coating film based on modeling of sputtering process, JSME Int J Ser A **41**(1) 25-30 (Jan 1998), 10A1033

272V. Plastics, elastomers, rubbers

Analysis and sensitivity analysis for polymer injection and compression molding, Comput Methods Appl Mech Eng **167**(3-4) 324-344 (Dec 1998), 6A841
Unsteady wire sweep due to transfer molding in a 160L QFP package, J Electron Packaging **121**(2) 127-134 (Jun 1999), 9A795
Hydrodynamic model of the srim-process and its verification, Appl Mech Eng **4**(S) 297-302 (1999), 11T728
Variational evolution problems and nonlocal geometric motion, Arch Rational Mech Anal **146**(3) 221-274 (1999), 12A703

274. FRACTURE AND DAMAGE PROCESSES

274B. Crack initiation

Calculation of hydrogen buildup in the neighborhood of intergranular cracks, J Mech Behavior Mat **9**(1) 23-33 (1998), 1A823
Fatigue crack initiation and propagation from hole defects, Exp Mech **38**(3) 161-166 (Sep 1998), 2A821
Time-dependent crack initiation and growth in ceramic matrix composites, J Eng Gas Turbines Power **120**(4) 808-812 (Oct 1998), 2A822
Mode I fracture of shape memory alloy plates, Smart Mat Struct **7**(4) 433-437 (Aug 1998), 2A859
Statistical model of coating fragmentation under equibiaxial load, Mat Manuf Processes **13**(4) 597-602 (1998), 2T1024
Residual stress and a crack due to displacement constraint for thin plate bending problem (Japanese), Proc JSCE **598**(I-44) 391-400 (Jul 1998), 3A503
Contact zone in an interfacial Zener-Stroh crack, Mech Mat **30**(2) 151-159 (Oct 1998), 3A728
Continuum damage mechanics analysis of fatigue crack initiation, Int J Fatigue **20**(9) 631-639 (Oct 1998), 3A729
New approach to the determination of fatigue crack initiation size, Int J Fatigue **20**(9) 683-687 (Oct 1998), 3A730
Analysis on the initiation of periodically distributed defects, Int J Plasticity **14**(8) 673-688 (1998), 3A1464
Determination of ductile crack tearing initiation in a cracked branch pipe with a criteria determined on CT specimen (French), Rev Francaise Mec **0**(3) 220-226 (Sep 1998), 4T767
Overview of fatigue crack initiation in carbon and low-alloy steels in light water reactor environments, J Pressure Vessel Tech **121**(1) 49-60 (Feb 1999), 5A646
Fatigue of Materials, Second Edition (Cambridge UP, New York, 1998) 8N18
Cyclic fatigue crack growth and closure behavior in alumina ceramics, Fatigue Fracture Eng Mat Struct **21**(12) 1575-1587 (1998), 8A732

Grinding induced subsurface cracks in silicon wafers, Int J Machine Tools Manuf **39**(7) 1103-1116 (Jul 1999), 9A796
Prediction of fracture generated by elastic recoveries of tools in multi-level powder compaction using FE simulation, Int J Machine Tools Manuf **39**(7) 1031-1045 (Jul 1999), 9A797
Failure Analysis Case Studies (Elsevier, Oxford, UK, 1999) 10N20
Fracture toughness of cementitious materials by SiGMA procedure, Proc JSCE **613**(V-42) 269-276 (Feb 1999), 10A821
Generalized kinetic model of three component mixture of cracks, Acta Geophys Polonica **46**(4) 375-388 (1998), 10A822
Phenomenological model of fatigue macrocrack initiation near stress concentrators, Fatigue Fracture Eng Mat Struct **22**(2) 161-172 (1999), 10A823
Solution of dynamic problems on concentration of elastic stresses in the vicinity of defects on cylindrical surfaces (Russian), Prikl Mekh (Appl Mech) **35**(1) 28-36 (1999), 10T824
Study on fatigue short crack growth law and fatigue life for medium carbon steels, Chinese J Mech Eng **11**(4) 264-270 (Dec 1998), 10A825
Matrix crack initiation and progression in composite laminates subjected to bending and extension, Int J Solids Struct **36**(21) 3131-3169 (Jul 1999), 10A913
Prediction of small drill bit breakage using the discrete wavelet transforms and linear discriminant functions (Japanese), J Japan Soc Precision Eng **65**(4) 598-603 (Apr 1999), 11A729
Local crack tip strain behavior during fatigue crack initiation and propagation in polycarbonate, Exp Mech **39**(2) 111-116 (Jun 1999), 11A800
Stress singularity approach for the prediction of fatigue crack initiation in adhesive bonds - Part 1: Theory, J Adhesion **70**(1-2) 119-138 (May 1999), 12A756
Stress singularity approach for the prediction of fatigue crack initiation in adhesive bonds - Part 2: Experimental, J Adhesion **70**(1-2) 139-154 (May 1999), 12A757

274C. Subcritical crack propagation

Configurational forces and a constitutive theory for crack propagation that allows for kinking and curving, J Mech Phys Solids **46**(8) 1343-1378 (Aug 1998), 1A8
Antiplane shear crack growth under quasistatic loading in a damaging material, Int J Solids Struct **35**(28-29) 3695-3715 (Oct 1998), 1A824
Fatigue propagation of superficial semi and quart-elliptical cracks in wet welds (Spanish), J Brazilian Soc Mech Sci **20**(2) 263-277 (Jun 1998), 1A825
First stage in the development of micromechanical simulations of the crystallographic propagation of fatigue cracks under multiaxial loading, Fatigue Fracture Eng Mat Struct **21**(6) 661-672 (1998), 1A826
Opening-mode dominated crack growth along inclined interfaces: Experimental observations, Int J Solids Struct **35**(30) 3961-3975 (Oct 1998), 1A827
Artificial retardation of fatigue crack growth by the infiltration of cracks by foreign materials, Fatigue Fracture Eng Mat Struct **21**(7) 835-846 (1998), 2A823
Crack closure and the fatigue-crack propagation threshold as a function of load ratio, Fatigue Fracture Eng Mat Struct **21**(7) 847-855 (1998), 2A824
Experimental analysis of propagation of fatigue crack on gears, Exp Mech **38**(3) 226-230 (Sep 1998), 2A825
Experimental study on load carrying capacity of tubular members with crack damage (Chinese), J Huazhong Univ Sci Tech **26**(5) 54-57 (May 1998), 2A826
Fatigue crack growth in two advanced titanium alloys under constant and variable amplitude loading at 25 and 175°C, Fatigue Fracture Eng Mat Struct **21**(7) 819-834 (1998), 2A827
Structural Life Assessment Methods (ASM Int, Materials Park OH, 1998) 3R16
Experimental results of the fatigue crack growth in a gear tooth root, Int J Fatigue **20**(9) 669-675 (Oct 1998), 3A731
Fatigue crack growth behavior of various structural steel after single and periodic overloads, Proc JSCE **598**(I-44) 37-46 (Jul 1998), 3A732
Fatigue crack propagation in austenitic stainless steel under low frequency loading and salt water conditions, Fatigue Fracture Eng Mat Struct **21**(8) 937-946 (1998), 3A733
Fatigue crack propagation rates of stainless clad steel (Japanese), Proc JSCE **598**(I-44) 439-444 (Jul 1998), 3A734
Improvement on prediction of fatigue crack growth from low cycle fatigue properties, Eng Fracture Mech **60**(4) 397-406 (Jul 1998), 3A735
Load interaction effects during fatigue crack growth under variable amplitude loading - A literature review - Part I: Empirical trends, Fatigue Fracture Eng Mat Struct **21**(8) 987-1006 (1998), 3A736
Model of the environmentally affected growth of fatigue cracks, J Appl Math Mech **62**(2) 289-296 (1998), 3A737
Modeling crack propagation in anisotropic media, Eng Fracture Mech **60**(4) 457-478 (Jul 1998), 3A738
Modeling of fatigue crack growth rate for ferritic steels in light water reactor environments, Nucl Eng Des **184**(1) 89-111 (Aug 1998), 3A739
Numerical modeling of 2D smooth crack growth, Int J Fracture **87**(4) 389-405 (1997), 3A740
Simplified model for the fatigue growth analysis of surface cracks in round bars under mode I, Int J Fatigue **20**(10) 711-718 (Nov 1998), 3A741
Circumferential surface flaws in pipes under cyclic axial loading, Eng Fracture Mech **60**(4) 383-396 (Jul 1998), 3A785
Method of seamlessly combining a crack tip molecular dynamics enclave with a linear elastic outer domain in simulating elastic-plastic crack advance, Int J Fracture **87**(4) 309-329 (1997), 3A805
Fatigue crack growth in double cantilever beam specimen with an adhesive layer, Eng Fracture Mech **60**(5-6) 605-614 (Jul 1998), 4A768
Part-through cracks in pipes under cyclic bending, Nucl Eng Des **185**(1) 1-10 (Sep 1998), 4A769
Merging of fatigue and fracture mechanics concepts: A historical perspective, Prog Aerospace Sci **34**(5-6) 347-390 (Jul-Aug 1998), 4T775
Stable crack growth along a brittle-ductile interface - II: Small scale yielding solutions and interfacial toughness predictions, Int J Solids Struct **36**(1) 1-34 (Jan 1999), 4A798
Reinvestigation of elastic-plastic growth of mode III cracks in power law hardening materials, Int J Fracture **88**(4) 335-342 (1998), 4A813
Crack paths in 3D elastic solids - I: Two-term expansion of the stress intensity factors - application to crack path stability in hydraulic fracturing, Int J Solids Struct **36**(1) 79-103 (Jan 1999), 4A835
Crack growth analysis in homogeneous orthotropic laminates, Composites Sci Tech **58**(10) 1697-1703 (Oct 1998), 5A647
Fatigue crack initiation and multiplication of unnotched titanium matrix composites, Acta Mat **46**(18) 6645-6659 (Nov 1998), 5A648
Fatigue strength and crack propagation life of in-service high pressure tubular reactor under residual stress, Int J Pressure Vessels Piping **75**(12) 871-877 (Oct 1998), 5A649
Investigation of the failure of low pressure steam turbine blades, Eng Failure Anal **5**(3) 181-193 (Sep 1998), 5A650
Intersonic crack growth in bimaterial interfaces: An investigation of crack face contact, J Mech Phys Solids **46**(11) 2233-2259 (Nov 1998), 5A722
Crack propagation and coalescence in brittle materials under compression, Eng Fracture Mech **61**(3-4) 311-324 (Sep-Nov 1998), 6A779
Centrally cracked thin circular disk - Part II: Mixed mode fatigue crack propagation, Int J Plasticity **14**(12) 1241-1264 (1998), 6A842
Crack growth approach to life prediction of spot-welded lap joints, Fatigue Fracture Eng Mat Struct **21**(9) 1123-1132 (1998), 6A843
Effect of L-T_p ratio on fatigue life prediction of SMAW cruciform joints of ASTM 517 "F" Grade steels, Int J Pressure Vessels Piping **75**(13) 907-918 (Nov 1998), 6A844
Fatigue crack growth in ferroelectrics driven by cyclic electric loading, J Mech Phys Solids **47**(1) 81-97 (Jan 1999), 6A845
Model of subcritical crack growth under constant stress rate condition (Chinese), J Xi'an Jiaotong Univ **32**(12) 81-84 (1998), 6A846
Numerical analysis of crack propagation in piezoelectric ceramics, Fatigue Fracture Eng Mat Struct **21**(11) 1371-1380 (1998), 6A847
Surface flaws in cylindrical shafts under rotary bending, Fatigue Fracture Eng Mat Struct **21**(9) 1027-1035 (1998), 6A848
Theoretical model for predicting fatigue crack growth rates in fiber-reinforced metal laminates, Fatigue Fracture Eng Mat Struct **21**(9) 1133-1145 (1998), 6A849
Investigation on fatigue growth of surface cracks in pipes (Chinese), J Tsinghua Univ Sci Tech **38**(7) 35-38 (Jul 1998), 6A864
Critical status of crack growth in chevron-notch specimens of elastic-plastic materials, Eng Fracture Mech **61**(3-4) 343-353 (Sep-Nov 1998), 6A904
Fatigue crack growth life of thick-walled cylinders with an external radial cracks, Int J Fatigue **21**(2) 135-146 (Feb 1999), 7A687
Fatigue-life prediction methodology using small-crack theory, Int J Fatigue **21**(2) 109-119 (Feb 1999), 7A688
Combination of fracture and damage mechanics for numerical failure analysis, Int J Solids Struct **36**(8) 1169-1191 (Mar 1999), 7A724
Artificial neural network technology for the data processing of on-line corrosion fatigue crack growth monitoring, Int J Pressure Vessels Piping **76**(2) 113-116 (Feb 1999), 8A733
Bimodal concept of high-cycle fatigue life prediction for constant and variable amplitude fatigue, Fatigue Fracture Eng Mat Struct **21**(12) 1559-1574 (1998), 8A734
Crack propagation in a brittle elastic material with defects, J Appl Mech **66**(1) 79-86 (Mar 1999), 8A735
Fatigue crack growth due to two successive single overloads, Fatigue Fracture Eng Mat Struct **21**(12) 1537-1547 (1998), 8A736
Rapid crack growth in a thermoelastic solid under mixed-mode thermomechanical loading, IMA J Appl Math **62**(1) 31-44 (Feb 1999), 8A1387
Computational simulation of fatigue crack growth and demonstration of leak before break criterion, Int J Pressure Vessels Piping **76**(5) 331-338 (Apr 1999), 9A798
Direct simulation of fatigue crack growth for arbitrary-shaped defects in pressure vessels, Proc Inst Mech Eng C **213**(C2) 175-189 (1999), 9A799
Fatigue crack propagation under non-proportional mixed mode loading, Eng Fracture Mech **62**(2-3) 203-229 (Jan-Feb 1999), 9A800
State-space model of fatigue crack growth, Int J Fracture **90**(3) 235-249 (1998), 9A801
Study on fatigue short crack growth law and fatigue life for medium carbon steels, Chinese J Mech Eng **11**(4) 264-270 (Dec 1998), 10A825
Bootstrap analysis of FCGR, application to the Paris relationship and to lifetime prediction, Int J Fatigue **21**(4) 299-307 (Apr 1999), 10A826
Crack propagation laws for the semi-elliptical surface decect (French), Rev Francaise Mec **0**(1) 65-72 (Mar 1999), 10A827
Interfacial fatigue crack growth in foam core sandwich structures, Fatigue Fracture Eng Mat Struct **22**(2) 123-131 (1999), 10A828
Concepts for bridged mode II delamination cracks, J Mech Phys Solids **47**(6) 1265-1300 (Jun 1999), 10A861
Behaviors of a single crack in multiple bolted joints, Int J Solids Struct **36**(27) 4055-4070 (Sep 1999), 10A1054
Crack closure and crack growth behavior in shot peened fatigued specimen, Eng Fracture Mech **63**(3) 295-304 (Jun 1999), 11A730
Effects of frequency on fatigue crack growth at elevated temperature, Fatigue Fracture Eng Mat Struct **22**(3) 185-193 (Mar 1999), 11A731
Experimental investigation of tubular T-joints under cyclic loads, J Offshore Mech Arctic Eng **121**(3) 137-143 (Aug 1999), 11A732
Fatigue crack growth properties of a GLARE3-5-4 fiber-metal laminate, Eng Fracture Mech **63**(3) 253-272 (Jun 1999), 11A733
Fatigue crack growth testing of sub-clad defects, J Pressure Vessel Tech **121**(3) 269-275 (Aug 1999), 11A734
Fatigue crack propagation in polypropylene reinforced with short glass fibers, Composites Sci Tech **59**(7) 1055-1062 (May-Jun 1999), 11A735
Investigation of a cracked thick aluminum panel repaired with a bonded composite patch, Eng Fracture Mech **63**(3) 305-323 (Jun 1999), 11A736
Three-dimensional model of wing crack growth and interaction, Eng Fracture Mech **63**(1) 81-110 (May 1999), 11A737
Reliability of metal elements in random fatigue during the crack propagation stage by means of PFEM and B-models, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 85-112 (1999), 11A747
Characterization of fatigue crack growth behavior by constant ΔK control testing, Fatigue Fracture Eng Mat Struct **22**(5) 383-392 (1999), 12A758
Experimental system for simulating crack propagation in asphalt pavements and effectiveness of geosynthetics in crack retardation, J Test Eval **27**(2) 106-113 (Mar 1999), 12A759
Fatigue crack growth of surface cracks under nonsymmetric loading, Eng Fracture Mech **63**(4) 375-393 (Jul 1999), 12A760
Influence of single and multiple overloads on fatigue crack propagation, Fatigue Fracture Eng Mat Struct **22**(4) 257-271 (Apr 1999), 12A761
Energy minimizing brittle crack propagation, J Elast **52**(3) 201-238 (1998), 12A809
Analysis of intersonic crack growth in unidirectional fiber-reinforced composites, J Mech Phys Solids **47**(9) 1893-1916 (Sep 1999), 12A827

274D. Dynamic processes

Nonlinear creep and failure of plane bodies under high-frequency cyclic loading, Prikl Mekh (Appl Mech) **34**(3) 97-103 (1998), 1A828
Insights into the dynamics of defective structures, Proc Inst Mech Eng C **212**(C6) 441-454 (1998), 3A742
Damage evolution by acoustic emission in the fracture process zone of concrete, Proc JSCE **599**(V-40) 177-184 (Aug 1998), 4A770
Fatigue lifetime under stochastic loading with random overloading pulse trains, Comput Methods Appl Mech Eng **168**(1-4) 221-241 (Jan 1999), 7A689
Nucleation and growth of voids at high strain-rates, J Comput-Aided Mat Des **5**(2-3) 193-206 (1998), 9A802
Optimal extrusion die design to achieve flow balance, Int J Machine Tools Manuf **39**(7) 1047-1064 (Jul 1999), 9A803
Engineering Against Fatigue (Balkema, Rotterdam, Netherlands, 1999) 10N19
Dynamic brittle fracture of high strength structural steels under conditions of plane strain, Int J Solids Struct **36**(22) 3293-3337 (Aug 1999), 10A829
Long-term failure of isotropic viscoelastic material with a crack under cyclic loading (Russian), Prikl Mekh (Appl Mech) **35**(2) 60-64 (1999), 10A840
Dynamic response of a cracked piezoelectric ceramic under arbitrary electro-mechanical impact, Int J Solids Struct **36**(33) 5125-5133 (Nov 1999), 12A762

274E. Fatigue characteristics of materials

Fatigue, Fracture, and High Temperature Design Methods in Pressure Vessels and Piping - 1998 (ASME, New York, 1998) 1N17
Crack growth behavior of heat-treated 4140 steel in air and gaseous hydrogen, Int J Fatigue **20**(7) 531-536 (Aug 1998), 1A829
Fatigue and creep-fatigue behavior of a nickel-base superalloy at 850°C, Int J Fatigue **20**(7) 543-548 (Aug 1998), 1A830
Flexural fatigue behavior of random continuous-fiber-reinforced thermoplastic composites, Composites Sci Tech **58**(6) 957-965 (Jun 1998), 1A831
Influence of low-intensity shot peening on the fatigue strength of an Al-Al_2O_3 composite material, Fatigue Fracture Eng Mat Struct **21**(6) 717-726 (1998), 1A832
Size of plastic zones and fatigue crack growth behavior of three forms of a Ti-6Al-2.5Mo-1.5Cr alloy, Fatigue Fracture Eng Mat Struct **21**(6) 727-739 (1998), 1A833
Statistical investigation of the effect of laboratory air on the fatigue behavior of a carbon steel, Fatigue Fracture Eng Mat Struct **21**(6) 705-715 (1998), 1A834
Tensile and LCF properties of AISI 316LN SS at 300 and 77K, Fatigue Fracture Eng Mat Struct **21**(6) 651-660 (1998), 1A835
Width effects on the tensile strength and fatigue behavior of angle-ply laminates, Int J Fatigue **20**(8) 575-580 (Sep 1998), 2A666
Commentary on the role of nitrogen in enhancing slow crack growth in C-Mn steel, Fatigue Fracture Eng Mat Struct **21**(7) 911-918 (1998), 2A828
Crack initiation in a coated and an uncoated nickel-base superalloy under TMF conditions, J Eng Gas Turbines Power **120**(4) 792-795 (Oct 1998), 2A829
Cyclic fatigue experiments and analysis of silicon nitrides: Stepwise loading, J Eng Mat Tech **120**(4) 275-279 (Oct 1998), 2A830
Effects of redistributing residual stress on the fatigue behavior of SS330 weldment, Int J Fatigue **20**(8) 565-573 (Sep 1998), 2A831
Fatigue behavior of 28CrMoV5-08 steel under thermomechanical loading, Int J Fatigue **20**(8) 555-563 (Sep 1998), 2A832
Fatigue life prediction of titanium matrix composites under mission spectrum loading, J Composite Tech Res **20**(3) 179-186 (Jul 1998), 2A833
Fatigue properties of a glass-fiber-reinforced polyester material used in wind turbine blades, J Strain Anal Eng Des **33**(3) 183-193 (May 1998), 2A834
Investigation of the fatigue behavior of SCS-Ultra/Ti-6-4, J Reinforced Plastics Composites **17**(13) 1202-1212 (1998), 2A835
Low Cycle Fatigue and Elasto-Plastic Behaviour of Materials (Elsevier Sci SA, Netherlands, 1998) 3N20
Stress concentration and fatigue of profiled reinforcing steels, Int J Fatigue **20**(10) 767-773 (Nov 1998), 3A493
Mechanical properties and endurance limit of fiber composite bars, J Reinforced Plastics Composites **17**(17) 1512-1524 (1998), 3A565
Fatigue crack growth behavior of various structural steel after single and periodic overloads, Proc JSCE **598**(I-44) 37-46 (Jul 1998), 3A732
Cross sectional profiles and dimensions of fatigue striations (Japanese), J Soc Mat Sci Japan **47**(8) 852-857 (Aug 1998), 3A743
Damage of Al 2024 alloy due to sequential exposure to fatigue, corrosion and fatigue, Int J Fatigue **20**(10) 743-748 (Nov 1998), 3A744
Description of short fatigue crack growth in a shot-peened medium carbon steel, Fatigue Fracture Eng Mat Struct **21**(8) 977-985 (1998), 3A745
Design fatigue strength of TIG-dressed welded joints in high-strength steel subjected to spectrum loading, Int J Fatigue **20**(9) 677-681 (Oct 1998), 3A746
Effects of constituent particle clusters on fatigue behavior of 2024-T3 aluminum alloy, Int J Fatigue **20**(10) 727-735 (Nov 1998), 3A747
Fatigue damage characterization in plain-weave carbon-carbon fabric reinforced plastic composites, J Reinforced Plastics Composites **17**(15) 1320-1337 (1998), 3A748

High-temperature low-cycle fatigue and creep behavior of nickel-based superalloys with heat-resistant coatings, Fatigue Fracture Eng Mat Struct **21**(8) 947-954 (1998), 3A749
Influence of post weld treatments on the fatigue behavior of Al-alloy welded joints, Int J Fatigue **20**(10) 749-755 (Nov 1998), 3A750
Low-cycle fatigue of piping and pressure vessel steels in LWR environments, Nucl Eng Des **184**(1) 49-76 (Aug 1998), 3A751
Low-field and high-field fatigue in PZT-based rainbow actuators, J Intelligent Mat Syst Struct **8**(12) 1044-1051 (Dec 1997), 3T752
Strength and life in thermoplastic composite laminates under static and fatigue loads - Part I: Experimental, Int J Fatigue **20**(9) 605-615 (Oct 1998), 3A753
Strength and life in thermoplastic composite laminates under static and fatigue loads - Part II: Formulation, Int J Fatigue **20**(9) 617-629 (Oct 1998), 3A754
Study on the characteristic stress-life curve of different materials and failure modes, J Reinforced Plastics Composites **17**(16) 1450-1461 (1998), 3A755
Super-long life tension-compression fatigue properties of quenched and tempered 0.46% carbon steel, Int J Fatigue **20**(9) 661-667 (Oct 1998), 3A756
Torsional fatigue strength of specimens containing an initial small crack induced by tension-compression fatigue (Japanese), J Soc Mat Sci Japan **47**(8) 846-851 (Aug 1998), 3A757
Thermal fatigue behavior of thin-walled cylindrical carbon steel specimens in simulated BWR environment, Nucl Eng Des **184**(1) 123-133 (Aug 1998), 3A1338
Thermal fatigue strength of type 304 stainless steel in simulated BWR environment, Nucl Eng Des **184**(1) 135-144 (Aug 1998), 3A1339
Modeling of corrosion fatigue crack growth plateaux for RPV steels in high temperature water, Nucl Eng Des **184**(1) 13-25 (Aug 1998), 3A1495
Cumulative damage and the response of human bone in two-step loading fatigue, J Biomech **31**(9) 825-833 (Sep 1998), 4A771
Effect of through-thickness stitching on the fatigue life of composite single-lap joints, Appl Composite Mat **5**(6) 399-409 (Nov 1998), 4A772
Fatigue resistance for dynamic bridge deck movements on the grid panel type buried joint (Japanese), Proc JSCE **599**(V-40) 143-153 (Aug 1998), 4T773
Investigation on vibration-drill life using the FEM (Chinese), J Huazhong Univ Sci Tech **26**(8) 29-31 (Aug 1998), 4A774
Merging of fatigue and fracture mechanics concepts: A historical perspective, Prog Aerospace Sci **34**(5-6) 347-390 (Jul-Aug 1998), 4T775
Multiaxial fatigue life prediction of metallic structures submitted to random vibrations (French), Rev Francaise Mec **0**(3) 202-208 (Sep 1998), 4A776
Non-stationary processes and their simulation in fatigue, Strojnicky Casopis **49**(5) 319-331 (1998), 4A777
Tension-torsion behavior of glass epoxy flexbeam laminates, J Composite Tech Res **20**(4) 221-226 (Oct 1998), 4A830
Reinforced Plastics Durability (CRC Press, Boca Raton FL, 1998) 5N30
Effect of bending overloads on torsional fatigue in normalized 1045 steel, Int J Fatigue **21**(1) 23-33 (Jan 1999), 5A651
Engineering aspects of the ISTTOK operation in a multicycle alternating flat-top plasma current regime, Fusion Eng Des **43**(1) 101-113 (Oct 1998), 5A652
High temperature time-dependent low cycle fatigue behavior of a type 316L(N) stainless steel, Int J Fatigue **21**(1) 11-21 (Jan 1999), 5A653
Influence of flux cored arc welded cruciform joint dimensions on fatigue life of ASTM 517 "F" grade steels, Int J Pressure Vessels Piping **75**(10) 765-772 (Aug 1998), 5A654
Inspection of elevated temperature fatigue crack extension data in low alloy steels, Int J Pressure Vessels Piping **75**(11) 805-818 (Sep 1998), 5A655
Low-cycle fatigue behavior of a nickel-based alloy under combined bending-tension loading, J Pressure Vessel Tech **121**(1) 109-115 (Feb 1999), 5A656
Low-cycle fatigue of austempered ductile irons at various strain ratios, Int J Fatigue **21**(1) 45-54 (Jan 1999), 5A657
Mechanisms of fatigue crack growth in Austempered Ductile Iron, Int J Fatigue **21**(1) 35-43 (Jan 1999), 5A658
Notch and temperature effects on crack propagation in SS 304 under LCF conditions, J Pressure Vessel Tech **121**(1) 42-48 (Feb 1999), 5A659
Scuffing under dry sliding conditions - Part I: Experimental studies, Trib Trans **41**(4) 435-446 (Oct 1998), 5A660
Scuffing under dry sliding conditions - Part II: Theoretical studies, Trib Trans **41**(4) 447-458 (Oct 1998), 5T661
Reliability of maintained ship hull girders subjected to corrosion and fatigue, Struct Safety **20**(3) 201-219 (1998), 5A674
Observation, analysis and prediction of fretting fatigue in 2024-T351 aluminum alloy, Wear **221**(1) 24-36 (Oct 1998), 5A679
Fatigue behavior and damage development of 3D woven sandwich composites, Composite Struct **43**(1) 35-45 (Sep 1998), 6A619
Effect of grain size on collective damage of short cracks and fatigue life estimation for a stainless steel, Fatigue Fracture Eng Mat Struct **21**(11) 1317-1325 (1998), 6A850
Estimation of torsional fatigue strength of medium carbon steel bars with a circumferential crack by the cyclic resistance-curve method, Fatigue Fracture Eng Mat Struct **21**(9) 1067-1076 (1998), 6A851
Fatigue crack growth behavior of SM45C steel under mixed-mode I and II loading, Fatigue Fracture Eng Mat Struct **21**(9) 1037-1048 (1998), 6A852
Fatigue damage evaluation of PMC by time series model, J Composite Mat **33**(1) 37-53 (1998), 6A853
Fatigue durability of longitudinally prestressed concrete slabs under running wheel (Japanese), Proc JSCE **605**(I-45) 79-90 (Oct 1998), 6A854
Fracture and fatigue of ferroelectrics under electric and mechanical loading, Fatigue Fracture Eng Mat Struct **21**(11) 1361-1369 (1998), 6A855
Influence of static strength of steel and weld material on fatigue strength of cruciform fillet welded joints (Japanese), Proc JSCE **605**(I-45) 289-293 (Oct 1998), 6A856
Monotonic and fatigue loading behavior of quasi-isotropic graphite-epoxy laminate embedded with piezoelectric sensor, Smart Mat Struct **7**(6) 822-832 (Dec 1998), 6A857
Small crack growth and fatigue life predictions for high-strength aluminum alloys - Part I: Experimental and fracture mechanics analysis, Fatigue Fracture Eng Mat Struct **21**(11) 1289-1306 (1998), 6A858
Study on the change of fatigue fracture mode in two titanium alloys, Fatigue Fracture Eng Mat Struct **21**(9) 1077-1087 (1998), 6A859
Concept of the fatigue potential of cast alloys, J Mech Behavior Mat **9**(4) 227-235 (1998), 7A690
Cyclic fatigue evaluation in metals under random oscillating stresses, Proc Estonian Acad Sci Eng **4**(4) 286-306 (Dec 1998), 7A691
Effect of case depth on fatigue performance of AISI 8620 carburized steel, Int J Fatigue **21**(2) 207-212 (Feb 1999), 7A692
Effect of load ratio on the fatigue crack growth behavior of DISPAL 2 alloy, Int J Fatigue **21**(2) 169-172 (Feb 1999), 7A693
High temperature low cycle fatigue behavior of a martensitic forging tool steel, Int J Fatigue **21**(2) 179-186 (Feb 1999), 7A694
High-cycle fatigue performance of solution-treated metastable-β titanium alloys, Acta Mat **47**(2) 661-669 (Jan 1999), 7A695
Influence of gas nitriding on fatigue resistance of maraging steel, Int J Fatigue **21**(2) 163-168 (Feb 1999), 7A696
Influence of sub-surface defects on low-cycle fatigue life in a gas turbine disc alloy at elevated temperature, Int J Fatigue **21**(2) 195-206 (Feb 1999), 7A697
Load ratio effects on fatigue response of titanium matrix composite at elevated temperature, Int J Fatigue **21**(2) 121-134 (Feb 1999), 7A698
Low-cycle fatigue behavior of a particulate SiC-2024Al composite at ambient and elevated temperature, Composites Sci Tech **59**(1) 147-155 (Jan 1999), 7A699
Ice induced low temperature fatigue crack propagation in offshore structural steel A131, China Ocean Eng **12**(3) 275-284 (1998), 7T705
Stress corrosion behavior of high-strength steel: The role of fatigue pre-cracking, J Mech Behavior Mat **9**(3) 205-225 (1998), 7A707
Fatigue of Materials, Second Edition (Cambridge UP, New York, 1998) 8N18
Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N19
Mechanical performance of carbon-fiber- and glass-fiber-reinforced epoxy I-beams - III: Fatigue performance, Composites Sci Tech **59**(2) 179-200 (Feb 1999), 8A579
Assessing stress state and mean load effects on the fatigue response of adhesively bonded joints, Int J Adhesion Adhesives **19**(1) 19-27 (Feb 1999), 8A737
Characterization of fatigue mechanisms of thermal barrier coatings by a novel laser-based test, J Eng Gas Turbines Power **121**(2) 259-264 (Apr 1999), 8A738
Effect of laser beam radiation on fatigue crack propagation in AISI 4150 steel, Fatigue Fracture Eng Mat Struct **21**(12) 1549-1558 (1998), 8A739
Effects of delamination on the fatigue behavior of composite structures, J Composite Mat **33**(3) 267-303 (1999), 8A740
Elastoplastic FE analysis of 3D fatigue crack growth in aluminum shafts subjected to axial loading, Int J Solids Struct **36**(15) 2231-2258 (May 1999), 8A741
Fatigue behavior of metal-matrix composites under single overloads, Fatigue Fracture Eng Mat Struct **21**(12) 1503-1511 (1998), 8A742
Fatigue behavior of γ-based titanium aluminides: Role of small cracks, Acta Mat **47**(3) 801-816 (Feb 1999), 8A743
Fatigue lifetime of glass fabric-epoxy composites, Composites Part A Appl Sci and Manuf **30A**(3) 299-304 (1999), 8A744
Improving the fatigue crack resistance of Waspaloy by shot peening, Fatigue Fracture Eng Mat Struct **21**(12) 1513-1524 (1998), 8A745
Residual strength degradation of cross-ply titanium matrix composite due to elevated temperature, J Composite Tech Res **21**(1) 16-24 (Jan 1999), 8A746
Torsional fatigue of a medium carbon steel containing an initial small surface crack introduced by tension-compression fatigue: Crack branching, non-propagation and fatigue limit, Fatigue Fracture Eng Mat Struct **21**(12) 1473-1484 (1998), 8A747
Role of inclusions, surface roughness and operating conditions on rolling contact fatigue, J Trib **121**(2) 240-251 (Apr 1999), 8A901
Characterization of low cycle fatigue damage in 9Cr-1Mo ferritic steel using X-ray diffraction technique, Int J Pressure Vessels Piping **76**(5) 275-281 (Apr 1999), 9A804
Effects of frequency and temperature on the fatigue behavior of a unidirectional titanium-matrix composite, Composites Sci Tech **59**(4) 583-591 (Mar 1999), 9A805
Effects of toughened interlaminar layers on fatigue damage progress in quasi-isotropic CFRP laminates, Int J Fatigue **21**(3) 235-242 (Mar 1999), 9A806
Evaluation of fatigue strength of adhesively bonded single and single step double lap joints based on stress singularity parameters, Eng Fracture Mech **62**(4-5) 409-424 (Mar 1999), 9A807
Fatigue behavior of composite bars subjected to bending and torsion, Composites Sci Tech **59**(4) 575-582 (Mar 1999), 9A808
Fatigue behavior of single skin FRP tee joints, Int J Fatigue **21**(3) 281-296 (Mar 1999), 9A809
Fatigue of composite laminates under off-axis loading, Int J Fatigue **21**(3) 253-262 (Mar 1999), 9A810
Influence of the laminate lay-up on the fatigue behavior of SiC-fiber and BMAS-matrix composites, Composites Part A Appl Sci and Manuf **30A**(5) 623-635 (1999), 9A811
Modeling the fatigue behavior of sandwich beams under monotonic, 2-step and block-loading regimes, Composites Sci Tech **59**(4) 471-486 (Mar 1999), 9A812
Strength degradation during fatigue of unidirectional and cross-ply SCS-6/Ti-15-3 composites, Int J Fatigue **21**(3) 215-223 (Mar 1999), 9A813
Thermal fatigue of aluminium-based metal matrix composites studied by mechanical spectroscopy, Sci Eng Comp Mat **8**(1) 45-53 (1999), 9A814
Engineering Against Fatigue (Balkema, Rotterdam, Netherlands, 1999) 10N19
Application of the pivot point on the FCP diagram to low-temperature fatigue of materials, Int J Offshore Polar Eng **9**(1) 68-72 (Mar 1999), 10A830
Cyclic fatigue characteristics and crack extension of a ceramic-metal joint, JSME Int J Ser A **41**(3) 389-394 (Jul 1998), 10A831
Damage development in woven fabric composites during tension-tension fatigue, J Composite Mat **33**(7) 614-639 (1999), 10A832
Enhancement of the fatigue properties in a weldable high-strength Al-Zn-Mg-Mn alloy by means of Mn-dispersoids, Int J Fatigue **21**(4) 383-391 (Apr 1999), 10A833
Fatigue crack growth resistant microstructures in polycrystalline Ni-base superalloys for aeroengines, Int J Fatigue **21**(4) 393-405 (Apr 1999), 10A834
Fatigue mechanisms in unidirectional glass-fiber-reinforced polypropylene, Composites Sci Tech **59**(5) 759-768 (Apr 1999), 10A835
Fatigue of multiple-row bolted joints in carbon-epoxy laminates: Ranking of factors affecting strength and fatigue life, Int J Fatigue **21**(4) 337-353 (Apr 1999), 10A836
Fatigue strength and surface quality of eutectoid steel wires, Int J Fatigue **21**(4) 329-335 (Apr 1999), 10A837
Fatigue strength evaluation of cracked components, JSME Int J Ser A **40**(4) 445-452 (Oct 1997), 10A838
Influence of light on fatigue in PZT films with planar electrodes, Arch Acoust **23**(3) 443-450 (1998), 10A839
Long-term failure of isotropic viscoelastic material with a crack under cyclic loading (Russian), Prikl Mekh (Appl Mech) **35**(2) 60-64 (1999), 10A840
Mesoscopic fracture mechanism of mode II delamination fatigue crack propagation in interlayer-toughened CFRP, JSME Int J Ser A **40**(4) 423-429 (Oct 1997), 10A863
Study on the mechanism of shear strength decay of RC members under load reversals (Japanese), Proc JSCE **613**(V-42) 85-102 (Feb 1999), 10A992
Monotonic tension, fatigue and creep behavior of SiC-fiber-reinforced SiC-matrix composites: A review, Composites Sci Tech **59**(6) 833-851 (May 1999), 11A519
Correlation of microstructure and fatigue properties of two high-strength spring steels, Int J Fatigue **21**(6) 571-579 (Jul 1999), 11A738
Effect of stress ratio and test methods on fatigue crack growth rate for nickel based superalloy Udimet720, Int J Fatigue **21**(5) 507-513 (May 1999), 11A739
Effects of fly ash on fatigue and fracture properties of hardened cement mortar, Cement & Concrete Composites **21**(3) 223-232 (1999), 11A740
Fatigue performance of tungsten inert gas (TIG) and plasma welds in thin sections, Int J Fatigue **21**(6) 587-601 (Jul 1999), 11A741
Increasing the bending fatigue strength of carburized spur gear teeth by presetting, Int J Fatigue **21**(6) 549-556 (Jul 1999), 11A742
Long-term environmental fatigue of pultruded glass-fiber-reinforced composites under flexural loading, Int J Fatigue **21**(5) 485-495 (May 1999), 11A743
Mechanisms governing cyclic deformation and failure during elevated temperature fatigue of aluminum alloy 7055, Int J Fatigue **21**(6) 557-569 (Jul 1999), 11A744
Modeling of crack surface interference under cyclic shear loads, Fatigue Fracture Eng Mat Struct **22**(3) 205-213 (Mar 1999), 11A745
Preferred fatigue crack propagation mode in a M250 maraging steel loaded in shear, Fatigue Fracture Eng Mat Struct **22**(3) 173-183 (Mar 1999), 11A746
Reliability of metal elements in random fatigue during the crack propagation stage by means of PFEM and B-models, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 85-112 (1999), 11A747
Self-organization, dislocation-point-defect interactions, and instabilities in fatigue, J Mech Behavior Mat **10**(1) 31-60 (1999), 11A748
Development of a multiaxial fatigue theory by considering constraint effects on small mixed-mode cracks, Int J Solids Struct **36**(30) 4543-4562 (Oct 1999), 11A773
Approach for fatigue cracking failure prediction of ceramic rolling elements under Hertzian loading, Trib Trans **42**(2) 289-295 (Apr 1999), 11A973
Analysis of turbine blade breakages in an engine starting motor, Eng Failure Anal **6**(4) 245-251 (Aug 1999), 12A763
Cyclic response and fatigue of steels subjected to strain control with non-zero means, J Test Eval **27**(1) 15-30 (Jan 1999), 12A764
Effect of particle size on fatigue behavior in SiC particulate - Reinforced aluminium alloy composites, Fatigue Fracture Eng Mat Struct **22**(4) 281-288 (Apr 1999), 12A765
Effect of wrought product thickness and stress ratio on fatigue crack growth behavior of a quaternary aluminum-lithium alloy, J Eng Mat Tech **121**(3) 393-398 (Jul 1999), 12A766
Effects of stacking sequence on microscopic fatigue damage development in quasi-isotropic CFRP laminates with interlaminar-toughened layers, Composites Sci Tech **59**(9) 1387-1398 (Jul 1999), 12A767
Empirical fatigue-life model for high-performance fiber composites with and without impact damage, Composites Part A Appl Sci and Manuf **30A**(8) 971-987 (1999), 12A768
Fatigue crack growth rate characteristics of laser shock peened Ti-6Al-4V, J Eng Mat Tech **121**(3) 321-329 (Jul 1999), 12A769
Fatigue crack-growth behavior of materials in viscous fluid environments, J Mech Phys Solids **47**(9) 1843-1871 (Sep 1999), 12A770
Fatigue damage initiation in Waspaloy under complex cyclic loading, J Eng Mat Tech **121**(3) 278-285 (Jul 1999), 12A771
Fatigue failure of an open cell and a closed cell aluminium alloy foam, Acta Mat **47**(8) 2511-2524 (Jun 1999), 12A772
Fatigue life assessment of nodular cast iron containing casting defects, Fatigue Fracture Eng Mat Struct **22**(4) 289-300 (Apr 1999), 12A773
Fatigue life parameter for type 304 stainless steel under biaxial-tensile loading at elevated temperature, J Eng Mat Tech **121**(3) 305-312 (Jul 1999), 12A774
Fatigue life prediction for GRP subjected to variable amplitude loading, Composites Part A Appl Sci and Manuf **30A**(8) 961-970 (1999), 12A775
How defects in an adhesive layer influence the fatigue strength of bonded steel-sheet specimens, Fatigue Fracture Eng Mat Struct **22**(5) 421-426 (1999), 12A776
In-situ observation of damage evolution and fracture in AlSi7Mg0.3 cast alloys, Eng Fracture Mech **63**(4) 395-411 (Jul 1999), 12A777
Modeling of fatigue microcracking kinetics in crossply composites and experimental validation, Composites Sci Tech **59**(9) 1349-1359 (Jul 1999), 12A778

274F. Stress or strain life analysis of fatigue

Calculation of elastic-plastic strain ranges for fatigue analysis based on linear elastic stresses, Nucl Eng Des **183**(1-2) 29-40 (Jul 1998), 1A836
Experimental study of the effect of a flaw at a notch root on the fatigue life of cast Al 319, Int J Fatigue **20**(7) 517-530 (Aug 1998), 1A837
Fatigue damage accumulation model based on continuum damage mechanics and ductility exhaustion, Int J Fatigue **20**(7) 495-501 (Aug 1998), 1A838
Low cycle fatigue strength assessment of cruciform welded joints, J Construct Steel Res **47**(3) 223-244 (Sep 1998), 1A839
Calculation of the fatigue life of regenerated large overall dimensions rolling bearings, Trib **29**(1) 39-50 (1998), 2A836
Fatigue life of cathodically protected tubular joints of offshore structures, J Offshore Mech Arctic Eng **120**(4) 232-236 (Nov 1998), 2A837
Fatigue life prediction of welded structures containing nonplanar flaws using Quality Category under non-constant amplitude loading, Int J Pressure Vessels Piping **75**(5) 433-435 (Apr 1998), 2A838
Representation of cycle properties of austenitic steels with plasticity-induced martensitic transformation, Fatigue Fracture Eng Mat Struct **21**(8) 955-964 (1998), 3A527
Mathematical networks for thermal transient and non-transient progressive fatigue of engine components, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 125-136 (1998), 4A778
Prediction of probability distribution of fatigue life for aluminum alloy under variable amplitude loading (Chinese), J Xi'an Jiaotong Univ **32**(10) 51-54 (1998), 4A779
Two methods for obtaining the expressions of fatigue life with given survivability (Chinese), J Xi'an Jiaotong Univ **32**(10) 108-110 (1998), 4T780
Tool-life distribution and tool-reliability life prediction (Chinese), J Beijing IT **18**(1) 42-46 (Feb 1998), 5A662
Wear-resistant reliable life of sliding thrust bearings in water (Chinese), J Beijing IT **18**(2) 139-144 (Apr 1998), 5A663
Fatigue failure analysis of a leg press exercise machine, Eng Failure Anal **6**(1) 1-12 (Feb 1999), 6A860
Fatigue properties of orthotropic decks on railway bridges, Eng Struct **21**(7) 639-652 (Jul 1999), 7A572
Fatigue life estimate of boiler drum based on actual boundary condition stress solution (Chinese), J Xi'an Jiaotong Univ **33**(1) 73-76 (1999), 7A700
Mechanical interaction between steel and coating in stressed and strained exposed locations, Marine Struct **11**(6) 231-250 (Jul 1998), 7A701
Optimization method of mean rank fitting of three-parameter Weibull distribution (Chinese), J Shanghai Jiaotong Univ **32**(11) 21-25 (Nov 1998), 7A702
Study of method utilizing fatigue life data on two competing fracture modes (Japanese), J Soc Mat Sci Japan **47**(12) 1216-1220 (Dec 1998), 7A703
Fatigue reliability assessment of highway bridges using new parameters (Japanese), J Soc Mat Sci Japan **47**(12) 1233-1238 (Dec 1998), 7A833
Reliability approach to fatigue damage prediction of highway bridges with the effect of traffic-induced vibration under consideration (Japanese), J Soc Mat Sci Japan **47**(12) 1239-1244 (Dec 1998), 7A840
Fatigue of Materials, Second Edition (Cambridge UP, New York, 1998) 8N18
Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N19
Spectral fatigue damage calculation in the side shells of ships, with due account taken of the effect of alternating wet and dry areas, Marine Struct **11**(7-8) 319-343 (Aug-Sep 1998), 8A748
Fatigue design of welded aluminum rectangular hollow section joints, Eng Failure Anal **6**(2) 113-130 (Apr 1999), 9A815
Fatigue life prediction of circular notched CFRP laminates, Composite Struct **44**(2-3) 163-168 (Feb-Mar 1999), 9A816
Implementation of FE based fatigue monitoring system at Heavy Water Plant Kota, Nucl Eng Des **187**(2) 153-163 (Feb 1999), 9A817
Life extension of acoustically fatigued panels using add-on dampers, Composite Struct **44**(2-3) 179-188 (Feb-Mar 1999), 9A818
Stress concentrations in multi-planar welded CHS XX-connections, J Construct Steel Res **50**(3) 259-282 (Jun 1999), 9A819
Increasing the usual life of welded joints operating under low cycle loads, Russian Ultrasonics **28**(5) 198-203 (1998), 9T942
Failure Analysis Case Studies (Elsevier, Oxford, UK, 1999) 10N20
Fatigue Design and Reliability (Elsevier Sci BV, Netherlands, 1999) 10N21
Study on fatigue short crack growth law and fatigue life for medium carbon steels, Chinese J Mech Eng **11**(4) 264-270 (Dec 1998), 10A825
Fatigue strength evaluation of cracked components, JSME Int J Ser A **40**(4) 445-452 (Oct 1997), 10A838
Study on factors controlling low cycle fatigue life, JSME Int J Ser A **41**(2) 243-251 (Apr 1998), 10A841
Nonlinear Fracture Mechanics for Engineers (CRC Press, Boca Raton FL, 1998) 11R16
Management system of boiler drum's fatigue life (Chinese), J Xi'an Jiaotong Univ **33**(5) 62-65 (1999), 11A749
Fatigue behavior and size effect perpendicular to the grain of laminated Douglas fir veneer, Mat Struct **32**(218) 298-303 (May 1999), 12A779

274G. Other aspects of fatigue

Continuum damage mechanics model for high cycle fatigue, Int J Fatigue **20**(7) 503-508 (Aug 1998), 1A840
Fatigue design of spot-welded austenitic and duplex stainless sheet steels, Fatigue Fracture Eng Mat Struct **21**(6) 673-686 (1998), 1A841
Increasing the bending fatigue resistance of spur gear teeth using a presetting process, Int J Fatigue **20**(7) 537-542 (Aug 1998), 1A842
Method for determining stress ratio of fatigue loading from the width and height of striation, Int J Fatigue **20**(7) 509-516 (Aug 1998), 1A843
Note on modeling short fatigue crack behavior, Fatigue Fracture Eng Mat Struct **21**(6) 771-779 (1998), 1A844
Influence of surface deformation and electrochemical variables on corrosion and corrosion fatigue crack development, Fatigue Fracture Eng Mat Struct **21**(7) 903-911 (1998), 2A839
Localized autofrettage as a design tool for the fatigue improvement of cross-bored cylinders, J Pressure Vessel Tech **120**(4) 393-397 (Nov 1998), 2A840
Advances in failure mechanisms in brittle materials, Mech Mat **29**(3-4) 143-340 (Aug 1998), 2A863
Fatigue prediction of thin hard coatings on the steel races of hybrid bearings used in high speed machine tool spindles, J Trib **120**(4) 835-842 (Oct 1998), 2A1016
Underwater wet repair welding and strength testing on pipe-patch joints, J Offshore Mech Arctic Eng **120**(4) 237-242 (Nov 1998), 2A1050
Minimization of stress concentration factors in fatigue crack repairs, Int J Fatigue **20**(10) 719-725 (Nov 1998), 3A520
Fatigue behavior of oblique nozzles on cylindrical shells submitted to internal pressure and axial forces, Int J Pressure Vessels Piping **75**(6) 473-481 (May 1998), 3A758
Fatigue crack growth thresholds: The influence of Young's modulus and fracture surface roughness, Int J Fatigue **20**(10) 737-742 (Nov 1998), 3A759
Low and high cycle fatigue: A continuum supported by AFM observations, Acta Mat **46**(14) 5007-5021 (Sep 1998), 3A760
Unified multiaxial fatigue damage parameter, Acta Mech Solida Sinica **11**(3) 261-274 (1998), 3A761
Derivation of crack closure and crack growth rate data from effective-strain fatigue life data for fracture mechanics fatigue life predictions, Int J Fatigue **20**(10) 703-710 (Nov 1998), 3A781
Plastic fracture mechanics model for characterization of multiaxial low-cycle fatigue, Int J Fatigue **20**(10) 775-784 (Nov 1998), 3A808
Fretting fatigue conditions for two types of turboalternator rotor, Proc Inst Mech Eng C **212**(C6) 429-440 (1998), 3A934
Numerical modeling of a 3D rail RCF "squat"-type crack under operating load, Fatigue Fracture Eng Mat Struct **21**(8) 923-935 (1998), 3A935
Failure analysis and experimental stress analysis of a threaded rotating shaft, Eng Failure Anal **5**(2) 79-89 (Jun 1998), 3A1492
Scuffing failure of hydrodynamic bearings in the presence of an abrasive contaminant, J Trib **121**(1) 90-96 (Jan 1999), 4A949
Maximum principle tensile stress and fatigue crack origin for compression springs, Int J Mech Sci **41**(3) 357-370 (Mar 1999), 4A959
Scuffing under dry sliding conditions - Part I: Experimental studies, Trib Trans **41**(4) 435-446 (Oct 1998), 5A660
Failure analysis of a weld repaired steam turbine casing, Eng Failure Anal **5**(3) 205-218 (Sep 1998), 5A664
Fatigue life estimation under multiaxial loadings, Int J Fatigue **21**(1) 3-10 (Jan 1999), 5A665
Fatigue strength reduction factors for welds based on nondestructive examination, J Pressure Vessel Tech **121**(1) 6-10 (Feb 1999), 5A666
Low cycle fatigue: Dwell effects and damage mechanisms, Int J Fatigue **21**(1) 55-76 (Jan 1999), 5A667
Two small-crack extension force concept applied to fatigue limit of blunt notched components, Int J Fatigue **21**(1) 77-82 (Jan 1999), 5A668
Fatigue and fracture emanating from notch: The use of the notch stress intensity factor, Nucl Eng Des **185**(2-3) 173-184 (Oct 1998), 5A707
Air crash due to fatigue failure of a ball bearing, Eng Failure Anal **5**(4) 261-269 (Dec 1998), 6A861
Analysis of a vehicle wheel shaft failure, Eng Failure Anal **5**(4) 271-277 (Dec 1998), 6A862
Fatigue cracking possibility along grain boundaries and persistent slip bands in copper bicrystals, Fatigue Fracture Eng Mat Struct **21**(11) 1307-1316 (1998), 6A863
Investigation on fatigue growth of surface cracks in pipes (Chinese), J Tsinghua Univ Sci Tech **38**(7) 35-38 (Jul 1998), 6A864
Plastic damage analysis for the process zone of a fatigue crack, Fatigue Fracture Eng Mat Struct **21**(11) 1403-1414 (1998), 6A914
Fatigue strength of welded transverse stiffener joints under variable amplitude loading, Int J Pressure Vessels Piping **75**(15) 1037-1045 (Dec 1998), 7A704
Ice induced low temperature fatigue crack propagation in offshore structural steel A131, China Ocean Eng **12**(3) 275-284 (1998), 7T705
Mixed-mode fatigue from stress concentrations: An approach based on equivalent stress intensity, Int J Fatigue **21**(2) 173-178 (Feb 1999), 7A706
Stress corrosion behavior of high-strength steel: The role of fatigue pre-cracking, J Mech Behavior Mat **9**(3) 205-225 (1998), 7A707
Effects of testing methods on the flexural fatigue life of human cortical bone, J Biomech **32**(1) 105-109 (Jan 1999), 7A1626
Corrosion fatigue fracture behavior of a SiC whisker-aluminium matrix composite under combined tension-torsion loading, Fatigue Fracture Eng Mat Struct **21**(12) 1435-1446 (1998), 8A749
Fatigue limit of blunt-notched components, Fatigue Fracture Eng Mat Struct **21**(12) 1525-1536 (1998), 8A750
Residual stresses and fretting fatigue, Wear **224**(2) 267-273 (Feb 1999), 8A751
Selection of papers presented at the 9th Asia-Pacific Conference on NDT: March 23-27 1998, California, NDT&E Int **32**(3) 127-185 (Apr 1999), 8T823
Failure analysis of rubber fuel pipes in aero-engines, Eng Failure Anal **6**(3) 173-180 (Jun 1999), 9A820
Fatigue damage accumulation in aluminium and titanium alloys subjected to block program loading under conditions of stress concentration and fretting, Int J Fatigue **21**(3) 271-279 (Mar 1999), 9A821
Fatigue damage prediction in synchronous belts, J Mech Des **121**(2) 280-288 (Jun 1999), 9A822
Fatigue degradation of the crack wake zone in monolithic alumina, Acta Mat **47**(4) 1345-1353 (Mar 1999), 9A823
Fatigue failure analysis of last stage blade in a low pressure steam turbine, Eng Failure Anal **6**(2) 93-100 (Apr 1999), 9A824
Fatigue life prediction of shielded metal arc welded cruciform joints containing LOP defects by a mathematical model, Int J Pressure Vessels Piping **76**(5) 283-290 (Apr 1999), 9A825
Fatigue life prediction of the metalwork of a traveling gantry crane, Eng Failure Anal **6**(3) 131-141 (Jun 1999), 9A826
Deformation behavior at the tip of a physically short fatigue crack due to a single overload, Fatigue Fracture Eng Mat Struct **22**(2) 145-151 (1999), 10A842
Fatigue of cemented hip replacements under torsional loads, Fatigue Fracture Eng Mat Struct **22**(1) 33-40 (1999), 10A843
Fatigue of cracked ship critical structural details: Cracked S-N curves and load shedding, Int J Offshore Polar Eng **8**(2) 130-139 (Jun 1998), 10A844
Fatigue striation formation in an Fe-3% Si alloy: Effects of crystallographic orientation and neighboring grains, Fatigue Fracture Eng Mat Struct **22**(2) 153-159 (1999), 10A845
Parametric investigation into the coalescence of coplanar fatigue cracks, Int J Fatigue **21**(4) 355-360 (Apr 1999), 10A846
X-ray diffraction studies on fatigue crack plastic zones developed under plane strain state conditions, Fatigue Fracture Eng Mat Struct **22**(2) 133-144 (1999), 10A847
Fatigue-fractured surfaces of epoxy adhesives and fractals under mode I cyclic loading, JSME Int J Ser A **41**(3) 380-388 (Jul 1998), 10A873
Effect of material, heat treatment, grinding, and shot peening on contact fatigue life of carburized steels, Int J Fatigue **21**(4) 309-327 (Apr 1999), 10A1030
Finite element method submodeling fatigue analysis of a complex helicopter component, Int J Fatigue **21**(5) 445-455 (May 1999), 11A32
Equivalent stress and total strain range predictions for multiaxial states of stress and strain, J Strain Anal Eng Des **34**(1) 53-58 (Jan 1999), 11A750
Geometrical effects in fatigue: A unifying theoretical model, Int J Fatigue **21**(5) 413-420 (May 1999), 11A751
Lifetime prediction for intercrystalline fracture under cyclic loading with various strain rates, Int J Fatigue **21**(5) 497-505 (May 1999), 11A752
Notch effect in low cycle fatigue, Int J Fatigue **21**(5) 421-430 (May 1999), 11A753
Recent developments in fatigue and fracture mechanics-based analysis and design of structures, J Struct Eng (India) **26**(1) 1-86 (Apr 1999), 11T907
Origins of partial slip in fretting: A review of known and potential solutions, J Strain Anal Eng Des **34**(3) 175-181 (May 1999), 11A971
Standing contact fatigue, Fatigue Fracture Eng Mat Struct **22**(3) 225-237 (Mar 1999), 11A972
Design of spiral strands against axial fatigue, Int J Offshore Polar Eng **9**(2) 149-157 (Jun 1999), 12A652
Delamination growth behavior of a fabric reinforced laminated composite under mode I fatigue, J Eng Mat Tech **121**(3) 381-385 (Jul 1999), 12A780
Influence of cross-sectional thickness on fatigue crack growth, Fatigue Fracture Eng Mat Struct **22**(5) 437-444 (1999), 12A781
Multiaxial fatigue under variable amplitude loads, J Eng Mat Tech **121**(3) 286-293 (Jul 1999), 12A782
Normalization of corrosion fatigue behavior: An example using an offshore structural steel in chloride environments, Fatigue Fracture Eng Mat Struct **22**(5) 409-420 (1999), 12A783
Reduced stress under multiaxial static-periodic loading, Marine Tech Trans **9** 109-117 (1998), 12A784
Method for determining the elastic-plastic response ahead of a notch tip, J Eng Mat Tech **121**(3) 313-320 (Jul 1999), 12A823
From a local stress approach to fracture mechanics: A comprehensive evaluation of the fatigue strength of welded joints, Fatigue Fracture Eng Mat Struct **22**(5) 369-381 (1999), 12A1017
Experimental study of large scale model composite materials under thermal fatigue, Composites Part A Appl Sci and Manuf **30A**(8) 1027-1034 (1999), 12A1421

274H. Corrosion and embrittlement

Nonlinear analysis of the fracture surface of a single-crystal brittle solid, Physica D **119**(3-4) 424-432 (Aug 1998), 1A845
Nonlinear elliptic boundary value problem related to corrosion modeling, Quart Appl Math **56**(3) 479-505 (Sep 1998), 1A846
Revisiting brittle fracture as an energy minimization problem, J Mech Phys Solids **46**(8) 1319-1342 (Aug 1998), 1A847
Analysis of failure modes resulting in stress corrosion cracking of 304N tubing in a high pressure heater desuperheater, J Eng Gas Turbines Power **120**(4) 872-874 (Oct 1998), 2A841
Corrosion behavior of sensitized duplex stainless steel, Bio-Med Mat Eng **8**(1) 25-36 (1998), 2A842
Corrosion of reinforcement steel embedded in high water-cement ratio concrete contaminated with chloride, Cement & Concrete Composites **20**(4) 263-281 (1998), 2A843
Development of a corrosion resistant directionally solidified material for land based turbine blades, J Eng Gas Turbines Power **120**(4) 744-750 (Oct 1998), 2A844
Dynamic oxidation performance of NARloy-Z with Cu-30 volume percent Cr coating, J Spacecraft Rockets **35**(4) 546-551 (Jul-Aug 1998), 2A845
Improving the marine water corrosion resistance of HVOF steels coated with WC + 12%Co + 4%Cr, Sci Eng Comp Mat **7**(3) 205-208 (1998), 2A846
Relationship between chloride-hydroxide ratio and corrosion rate of steel in concrete, Cement & Concrete Composites **20**(4) 282-292 (1998), 2A847
Corrosion at 600°C of four 8-12 Wt% Cr ferritic steels in chemically cycling oxidizing-sulfidizing gases starting with sulfidation, High Temp Mat Proc **17**(3) 145-153 (Jul-Sep 1998), 3A762
Evaluation of stress corrosion resistance and corrosion fatigue fracture behavior of ultra-high-strength P-M Al-Zn-Mg alloy, Int J Fatigue **20**(10) 757-766 (Nov 1998), 3A763
Stress corrosion cracking of low alloy steels and welded joints in sea water (Chinese), J Xi'an Jiaotong Univ **32**(7) 98-102 (1998), 3A764
Quantitative imaging of corrosion in plates by eddy current methods, SIAM J Appl Math **58**(5) 1509-1531 (Oct 1998), 3A871
Corrosion mechanism of concrete in a sewage treatment facility using an oxygen aeration activated sludge process (Japanese), Proc JSCE **599**(V-40) 23-39 (Aug 1998), 4A781
Corrosion resistance and ion dissolution of titanium with different surface microroughness, Bio-Med Mat Eng **8**(2) 61-74 (1998), 4A782
Effect of history on hydrogen assisted cracking - 1: Coupling of hydrogenation and crack growth, Int J Fracture **88**(3) 233-245 (1998), 4A783
Effect of history on hydrogen assisted cracking - 2: A revision of K-dominance, Int J Fracture **88**(3) 247-258 (1998), 4A784
Hydrogen trapping in high-strength steels, Acta Mat **46**(16) 5733-5743 (Oct 1998), 4A785

Mechanism of corrosion fatigue in super duplex stainless steel in 3.5% NaCl solution, Int J Fracture **88**(3) 205-213 (1998), 4A786
Safety and availability of steam generator tubes affected by secondary side corrosion, Nucl Eng Des **185**(1) 11-21 (Sep 1998), 4A787
Weld HAZ embrittlement of Nb containing C-Mn steels, Int J Pressure Vessels Piping **75**(9) 661-677 (Aug 1998), 4A788
Results from the space technology research vehicle 1a atomic oxygen experiment, J Spacecraft Rockets **35**(5) 647-652 (Sep-Oct 1998), 4A790
Compressive thermal yielding leading to hydrogen cracking in a fired cannon, J Pressure Vessel Tech **121**(1) 116-120 (Feb 1999), 5A669
Erosion corrosion of copper-nickel alloys in sulfide polluted seawater, Arab J Sci Eng **23**(2B) 197-214 (Oct 1998), 5A670
Material toughness properties of a series of turbine casing bolts removed from service after over 100,00 hours, Int J Pressure Vessels Piping **75**(11) 777-789 (Sep 1998), 5A671
Physically based micromechanical theory of macroscopic stress-corrosion cracking in aligned continuous glass-fiber-reinforced polymer laminates, Composites Sci Tech **58**(10) 1659-1665 (Oct 1998), 5A672
Reliability of corrosion-damaged steel structures using interval probability theory, Struct Safety **20**(3) 237-255 (1998), 5A673
Reliability of maintained ship hull girders subjected to corrosion and fatigue, Struct Safety **20**(3) 201-219 (1998), 5A674
Stress corrosion cracking in fiberglass composite structures: A case study, Polymers and Polymer Composites **6**(5) 269-277 (1998), 5A675
Applications of laser surface processing for improving corrosion resistance (Chinese), J Tsinghua Univ Sci Tech **38**(12) 65-68 (Dec 1998), 6A830
Effect of displacement rates on EAC of AISI 4340 steel, Fatigue Fracture Eng Mat Struct **21**(10) 1279-1286 (1998), 6A865
Effects of stress-strain conditions on hydrogen-induced fracture, Fatigue Fracture Eng Mat Struct **21**(11) 1351-1360 (1998), 6A866
Failure of steels caused by hydrogen induced microcracking, Eng Fracture Mech **61**(3-4) 299-310 (Sep-Nov 1998), 6A867
Hydrogen cracking of ferritic stainless steel thermal storage tanks, Eng Failure Anal **5**(4) 323-331 (Dec 1998), 6A868
Hydrogen embrittlemenet failure of (Sm,Dy,Gd)Co$_5$ permanent magnets, Eng Failure Anal **5**(4) 317-321 (Dec 1998), 6A869
Influence of water to current ratio on corrosion mechanism near bending crack (Japanese), Proc JSCE **606**(V-41) 63-73 (Nov 1998), 6A870
Numerical study of intergranular fracture and oxygen embrittlement in an elastic-viscoplastic solid, J Mech Phys Solids **47**(1) 27-58 (Jan 1999), 6A871
Polytetrafluoroethylene-blended polyphenylenesulphide coatings for mitigating corrosion of steel in geothermal environments, Polymers and Polymer Composites **6**(6) 373-385 (1998), 6A872
Mechanisms and modeling of irradiation embrittlement of reactor pressure vessel steels, J Soc Mat Sci Japan **47**(11) 1112-1118 (Nov 1998), 6A1534
Biological corrosion of concrete in sanitary sewerage systems and treatment plants (Japanese), J Soc Mat Sci Japan **47**(10) 1031-1040 (Oct 1998), 6T1561
Stress corrosion behavior of high-strength steel: The role of fatigue pre-cracking, J Mech Behavior Mat **9**(3) 205-225 (1998), 7A707
Weldability and stress corrosion resistance of WDL series steel with low susceptibility to weld cracking, Int J Pressure Vessels Piping **76**(1) 19-22 (Jan 1999), 7A932
Embrittlement characteristics of large turbine casing bolts: The influence of service induced strain, Int J Pressure Vessels Piping **76**(2) 79-90 (Feb 1999), 8A752
Hydrogen transport near a blunting crack tip, J Mech Phys Solids **47**(4) 971-992 (Apr 1999), 8A753
Inhibition of interdiffusion from MCrAlY overlay coatings by application of a Ni-Re interlayer, J Eng Gas Turbines Power **121**(2) 313-319 (Apr 1999), 8A754
Reverse temper embrittlement, RTE, in low alloy steels: A substantive study concerning the influences of grain size, bulk phosphorus and accumulated service strain, Int J Pressure Vessels Piping **76**(2) 63-78 (Feb 1999), 8A755
Corrosion resistance and bond strength of epoxy-coated steel bars, Arab J Sci Eng **23**(2C) 141-154 (Dec 1998), 9A827
Effect of pitting corrosion on fatigue crack initiation and fatigue life, Eng Fracture Mech **62**(4-5) 425-444 (Mar 1999), 9A828
Hydrogen incorporation and embrittlement of electroformed Au, Cu and Au-Cu, Eng Failure Anal **6**(2) 83-92 (Apr 1999), 9A829
Performance of structures in a corrosive environment, Arab J Sci Eng **23**(2C) 155-165 (Dec 1998), 9A830
Susceptibility of 7050-T7451 electron beam welded specimens to stress corrosion, Eng Fracture Mech **62**(4-5) 463-476 (Mar 1999), 9A1093
In situ observation of stress corrosion cracking of high-strength aluminium alloy by scanning atomic force microscopy and influence of vacuum, JSME Int J Ser A **41**(1) 49-56 (Jan 1998), 10A848
Reaction diffusion behaviors for interface between Ni-based super alloys and vacuum plasma sprayed MCrAlY coatings, J Eng Gas Turbines Power **121**(3) 476-483 (Jul 1999), 10A849
Equilibrium, stability and evolution of elastic plates under the combined effects of stress and surface diffusion, Quart J Mech Appl Math **52**(2) 283-309 (May 1999), 10A939
Hydrogen damage detection by ultrasonic spectral analysis, NDT&E Int **32**(5) 275-281 (Jul 1999), 10A960
Steel rebars corrosion investigation with strain gages, Cement & Concrete Composites **21**(3) 163-171 (1999), 11A754
Corrosion behavior of aerosol thermal sprayed ZrO$_2$ coatings, Adv Performance Mat **6**(1) 39-51 (May 1999), 12A785
Corrosion studies on aluminium reinforced with uncoated and coated carbon fibers, Composites Sci Tech **59**(8) 1239-1245 (Jun 1999), 12A786
Damage theory for polymeric material, Appl Math Mech **20**(3) 338-342 (Mar 1999), 12A787
Effect of tempering treatment on hydrogen-induced cracking in high-strength steel, Fatigue Fracture Eng Mat Struct **22**(5) 393-398 (1999), 12A788
Further evaluation of automated stress corrosion ring testing of aluminum alloys, J Test Eval **27**(3) 196-202 (May 1999), 12A789
Hydrogen degradation of steels for ship hulls, Marine Tech Trans **9** 219-230 (1998), 12A790
Hydrogen embrittlement failure of hot dip galvanized high tensile wires, Eng Failure Anal **6**(4) 253-265 (Aug 1999), 12A791
Potential of acoustic emission for the characterization and understanding of mechanical damaging during abrasion-corrosion processes, Wear **231**(1) 108-115 (Jun 1999), 12A792
Evaluation of the fretting corrosion behavior of the proximal pad taper of a modular hip design, Wear **231**(1) 54-64 (Jun 1999), 12A793
Monitoring and measuring pitting corrosion of stainless steel by holographic interferometry, Nondestruct Test Eval **15**(2) 83-91 (Apr 1999), 12A870

274I. Fretting, wear, and erosion

Micro-end-milling - I: Wear and breakage, Int J Machine Tools Manuf **38**(12) 1419-1436 (Dec 1998), 1A819
Micro-end-milling - II: Extending tool life with a Smart Workpiece Holder, Int J Machine Tools Manuf **38**(12) 1437-1448 (Dec 1998), 1A820
Micro-end-milling - III: Wear estimation and tool breakage detection using acoustic emission signals, Int J Machine Tools Manuf **38**(12) 1449-1466 (Dec 1998), 1A821
Solid particle erosion behavior of FRP degraded by hot water, J Composite Mat **32**(13) 1295-1305 (1998), 1A848
Analysis of surface tractions in complex fretting fatigue cycles using quadratic programming, J Trib **120**(4) 744-749 (Oct 1998), 2A848
Case study of feedwater heater life management, J Pressure Vessel Tech **120**(4) 441-448 (Nov 1998), 2A849
Effects of frequency on the fretting conditions in a contact between PMMA and a rigid counterface, J Trib **120**(4) 729-736 (Oct 1998), 2A850
Grease lubrication in fretting, J Trib **120**(4) 737-743 (Oct 1998), 2A1266
Fretting wear characteristics of Zircaloy-4 tube, Wear **219**(1) 3-7 (Aug 1998), 3A765
Performance of marine coatings and pipe materials under fluid-borne sand erosion, Wear **219**(1) 46-59 (Aug 1998), 3A943
In-situ measurement of near-surface fretting contact temperatures in an aluminum alloy, J Trib **121**(1) 11-19 (Jan 1999), 4A789
Results from the space technology research vehicle 1a atomic oxygen experiment, J Spacecraft Rockets **35**(5) 647-652 (Sep-Oct 1998), 4A790
Scuffing failure analysis and experimental simulation of piston ring-cylinder liner, Trib Letters **5**(4) 309-312 (Oct 1998), 4T791
Erosion of oil and gas industry choke valves using computational fluid dynamics and experiment, Int J Heat Fluid Flow **19**(6) 636-643 (Dec 1998), 4A1135
Erosion corrosion of copper-nickel alloys in sulfide polluted seawater, Arab J Sci Eng **23**(2B) 197-214 (Oct 1998), 5A670
Design and performance of a high velocity air-sand jet impingement erosion facility, Wear **220**(2) 95-112 (Oct 1998), 5A676
Fretting wear of sintered iron under low normal pressure, Wear **221**(2) 86-92 (Oct 1998), 5A677
Improved performance rhenium containing single crystal alloy turbine blades utilizing PPM levels of the highly reactive elements lanthanum and yttrium, J Eng Gas Turbines Power **121**(1) 138-143 (Jan 1999), 5A678
Observation, analysis and prediction of fretting fatigue in 2024-T351 aluminum alloy, Wear **221**(1) 24-36 (Oct 1998), 5A679
Solid particle erosion behavior of thermal sprayed ceramic, metallic and polymer coatings, Wear **221**(2) 93-108 (Oct 1998), 5A680
Thermodynamic aspects related to steel reactive erosion, Wear **221**(2) 109-115 (Oct 1998), 5A681
Importance diagrams: A novel presentation of the response of a material to neutron irradiation, Fusion Eng Des **43**(2) 209-235 (Dec 1998), 6A873
Microripple formation and removal mechanism of ceramic materials by solid-liquid slurry erosion, Wear **223**(1-2) 93-101 (Dec 1998), 6A874
Numerical investigation of a new protection method of the tube erosion by particles impingement, Wear **223**(1-2) 50-57 (Dec 1998), 6A875
Particle erosion: A new concept of flow visualization and boundary layer investigations of rotating machines at high Reynolds numbers, Wear **223**(1-2) 110-118 (Dec 1998), 6A876
Plowing erosion of organic coatings by spherical particles, Wear **222**(1) 38-48 (Nov 1998), 6A877
Solid particle erosion behavior of $Al_{18}B_4O_{33}$ whisker-reinforced AC4C al alloy matrix composites, Wear **223**(1-2) 22-30 (Dec 1998), 6A878
Solid particle erosion of SiC and SiC-TiB$_2$ composite hot-pressed with Y$_2$O$_3$, Wear **222**(2) 114-119 (Nov 1998), 6A879
Erosion of thermal spray MCr-Cr$_3$C$_2$ cermet coatings, Wear **224**(1) 153-159 (Jan 1999), 7A708
Newton method for 3D fretting problems, Int J Solids Struct **36**(14) 2075-2090 (May 1999), 7A709
Solid-particle erosion and protective layers for steam turbine blading, Wear **224**(1) 8-12 (Jan 1999), 7A710
Solid-particle erosion of Portland cement and concrete, Wear **224**(1) 106-112 (Jan 1999), 7A711
Wear behavior of Z200 CD 12 steel, J Mech Behavior Mat **9**(4) 277-289 (1998), 7A712
Residual stresses and fretting fatigue, Wear **224**(2) 267-273 (Feb 1999), 8A751
Erosion of ceramic materials by a sand-water slurry jet, Wear **224**(2) 183-193 (Feb 1999), 8A756
Solid particle erosion of α-brass with 5 and 25 μm particle at normal incidence, Wear **224**(2) 226-235 (Feb 1999), 8A757
Comparative study on fretting wear-resistant properties of ion-plated TiN and magnetron-sputtered MoS$_2$ coatings, Wear **224**(2) 211-215 (Feb 1999), 8A906
Chloride permeability and steel corrosion in self-compacting concrete with limestone powder or ground granulated blast furnace slag (Japanese), Proc JSCE **613**(V-42) 175-187 (Feb 1999), 10A850
Fretting wear behavior of thermal sprayed hydroxyapatite coating lubricated with bovine albumin, Wear **230**(1) 98-102 (May 1999), 11A755
Steam generator fretting-wear damage: A summary of recent findings, J Pressure Vessel Tech **121**(3) 304-310 (Aug 1999), 11A756
Evaluation of the fretting corrosion behavior of the proximal pad taper of a modular hip design, Wear **231**(1) 54-64 (Jun 1999), 12A793
Fretting wear behavior of hypereutectic P-M Al-Si in oil environment, Wear **230**(2) 105-117 (May 1999), 12A794
Laser melting of plasma-sprayed copper-ceramic coatings for improved erosion resistance, Wear **231**(1) 102-107 (Jun 1999), 12A795
Relations between cavitation erosion resistance of materials and their fatigue strength under random loading, Wear **230**(2) 201-209 (May 1999), 12A796
Surface morphologies and erosion rates of metallic building materials after sandblasting, Wear **230**(2) 156-164 (May 1999), 12A993

274J. Creep

Creep and fracture behavior of English Electric Mark III transition welds - A: New weldments, Int J Pressure Vessels Piping **75**(2) 83-94 (Feb 1998), 1A849
Creep and fracture behavior of English Electric Mark III transition welds - B: Ex-service weldments, Int J Pressure Vessels Piping **75**(2) 95-103 (Feb 1998), 1A850
Initiation and growth of small cracks in directionally solidified Mar-M247 under creep-fatigue - Part I: Effect of microstructure, Fatigue Fracture Eng Mat Struct **21**(6) 741-750 (1998), 1A851
Initiation and growth of small cracks in directionally solidified Mar-M247 under creep-fatigue - Part II: Effect of angle between stress axis and solidification direction, Fatigue Fracture Eng Mat Struct **21**(6) 751-760 (1998), 1A852
Use of the reference stress method in estimating the life of pipe bends under creep conditions, Int J Pressure Vessels Piping **75**(2) 161-169 (Feb 1998), 1A1026
Continuous SEM observations of creep-fatigue damage processes, Fatigue Fracture Eng Mat Struct **21**(7) 873-884 (1998), 2A851
Creep behavior of full-size welded joints: Defect acceptance criteria, Fatigue Fracture Eng Mat Struct **21**(7) 791-803 (1998), 2A852
Relaxation of interface stresses during creep of ferritic steel weldments, J Strain Anal Eng Des **33**(3) 195-206 (May 1998), 2A1049
Analysis of the Type IV creep failures of three welded ferritic pressure vessels, Int J Pressure Vessels Piping **75**(6) 509-519 (May 1998), 3A766
Approximate and computationally efficient algorithm for computing reference stress for creep life assessment, Int J Pressure Vessels Piping **75**(6) 459-465 (May 1998), 3A767
Effects of initial creep conditions and temporary unloading on the long-term response of stones, Mat Struct **31**(212) 555-562 (Oct 1998), 3A768
Empirical relation between strain energy and time in creep deformation, Int J Pressure Vessels Piping **75**(13) 939-943 (Nov 1998), 6A541
Local buckling of the steel skin in lightweight composites induced by creep and shrinkage, Adv in Struct Eng **2**(1) 25-33 (Nov 1998), 6A625
Life prediction of service exposed reactor and distillation column materials used in a petrochemical industry, Eng Failure Anal **5**(4) 289-298 (Dec 1998), 6A880
Cyclic plasticity, creep and fracture in a Nimonic alloy, J Strain Anal Eng Des **33**(6) 419-435 (Nov 1998), 7A509
Elastic limit stress and creep of 2D SiC$_f$/MLAS, Composites Sci Tech **59**(1) 19-27 (Jan 1999), 7A743
Comparison and evaluation of creep crack growth rate and fracture time for Alloy 800 by the Q* parameter, Int J Pressure Vessels Piping **75**(15) 1065-1074 (Dec 1998), 7A1418
Development of creep damage diagnosis system for the high temperature steam pipes of the boiler in thermal power plants (Japanese), J Soc Mat Sci Japan **48**(1) 70-76 (Jan 1999), 8A758
Lifetime of concrete dam models under constant loads, Mat Struct **32**(216) 103-111 (Mar 1999), 8A862
Contact creep of biphasic cartilage layers, J Appl Mech **66**(1) 137-145 (Mar 1999), 8A1568
Material model describing the orientation dependent creep behavior of single crystals based on dislocation densities of slip systems, Int J Plasticity **15**(3) 285-298 (1999), 9A588
Aspects of testpiece design responsible for errors in cyclic plasticity experiments, Int J Damage Mech **8**(2) 109-137 (Apr 1999), 9A610
Crack growth in creep-brittle materials, Eng Fracture Mech **62**(1) 1-142 (Jan 1999), 9A831
Damage assessment and maintenance strategy of hydrogen reformer furnace tubes, Eng Failure Anal **6**(3) 143-153 (Jun 1999), 9A832
Experimental investigation of near crack tip creep deformation in alloy 800 at 650°C, Int J Fracture **91**(3) 233-268 (1998), 9A833
Further evaluation of creep-fatigue life prediction methods for low-carbon nitrogen-added 316 stainless steel, J Pressure Vessel Tech **121**(2) 142-148 (May 1999), 9A834
Neural network approach to elevated temperature creep-fatigue life prediction, Int J Fatigue **21**(3) 225-234 (Mar 1999), 9A835
Homogenization theory for time-dependent deformation of composites with periodic internal structures, JSME Int J Ser A **41**(3) 309-317 (Jul 1998), 10A642
Experimental study on the effect of curvature-rate at preloading stage on subsequent creep or relaxation of thin-walled tubes under pure bending, JSME Int J Ser A **41**(4) 525-531 (Oct 1998), 10A672
Damage localization of conventional creep damage models and proposition of a new model for creep damage analysis, JSME Int J Ser A **41**(1) 57-65 (Jan 1998), 10A851
Endochronic simulation for multiaxial creep, JSME Int J Ser A **41**(2) 204-210 (Apr 1998), 10A852
Meso approaches for the creep damage behavior of nickel-base directionally solidified superalloys, Appl Math Mech **20**(2) 186-192 (Feb 1999), 10A853
Modeling the effect of creep-fatigue interaction on crack growth, Fatigue Fracture Eng Mat Struct **22**(2) 111-122 (1999), 10A854
Nucleation and growth of creep voids in circumferentially notched specimens, JSME Int J Ser A **41**(2) 218-224 (Apr 1998), 10A855
Prestrain effects on creep ductility of a 316 stainless steel light forging, Int J Pressure Vessels Piping **76**(6) 355-359 (May 1999), 10A856
Recent progress in creep rupture analysis of unidirectional composites reinforced with long brittle fibers, JSME Int J Ser A **41**(2) 167-177 (Apr 1998), 10A857
Study on creep behavior in the unloading process for early aged concrete (Japanese), Proc JSCE **613**(V-42) 165-174 (Feb 1999), 10T858
Study on the prediction model of tensile creep strain of concrete based on micro pore behavior (Japanese), Proc JSCE **613**(V-42) 121-135 (Feb 1999), 10A859

Stress concentrations caused by fiber failure in 2D composites, Composites Sci Tech **59**(7) 1063-1071 (May-Jun 1999), 11A463
Creep-fatigue crack growth in notched SS-304 plates at 600°C, Eng Fracture Mech **63**(1) 39-55 (May 1999), 11A757
Knowledge based system for creep-fatigue assessment, Nucl Eng Des **188**(3) 289-301 (May 1999), 11A758
Tensile creep behavior of high strength concretes at early ages, Mat Struct **32**(219) 383-387 (Jun 1999), 11A909
Catastrophic failure of a polypropylene tank - Part I: Primary investigation, Eng Failure Anal **6**(4) 197-214 (Aug 1999), 12A797
Catastrophic failure of a polypropylene tank - Part II: Comparison of the DVS 2205 code of practice and the design of the failed tank, Eng Failure Anal **6**(4) 215-232 (Aug 1999), 12A798
Precision in the extrapolation of creep rupture data, J Test Eval **27**(3) 203-210 (May 1999), 12A799
Recent advance in the assessment of creep rupture data, Nucl Eng Des **190**(3) 287-296 (Jun 1999), 12A800
Software for the assessment and application of creep and rupture data, Nucl Eng Des **190**(3) 273-285 (Jun 1999), 12A801
Microcrack description of creep damage in crystalline solids with different behavior in tension and compression, Int J Damage Mech **8**(3) 197-232 (Jul 1999), 12A844

274K. Ablation, spallation, delamination

Proceedings of the International Symposium on deformation characteristics and modeling of materials in honor of Professor Sia Nemat-Nasser's 60th birthday: Sendai, Japan, August 22-23, 1996, Mech Mat **28**(1-4) 1-279 (May 1998), 1T633
Electric-field induced interfacial cracking in multilayer electrostrictive actuators, J Mech Phys Solids **46**(8) 1301-1318 (Aug 1998), 1A853
Estimation of critical loads and low-cycle fatigue of laminated plates with delamination regions, Eng Trans **45**(3-4) 433-445 (1997), 1A854
Evaluation of stress transfer mechanism in single fiber pull-out test by numerical analysis (Japanese), J Soc Mat Sci Japan **47**(6) 612-617 (Jun 1998), 1A855
Modeling of spall fracture in brittle solids, Eng Trans **45**(3-4) 505-531 (1997), 1A856
Transient response of a composite plate with delamination, J Appl Mech **65**(3) 664-670 (Sep 1998), 2A224
Ceramic coating edge failure due to thermal expansion interference, J Eng Gas Turbines Power **120**(4) 820-824 (Oct 1998), 2A853
Analysis of interfacial cracks in a TBC-superalloy system under thermomechanical loading, J Eng Gas Turbines Power **120**(4) 813-819 (Oct 1998), 2A887
Effect of multiple delamination on postbuckling behavior of laminated composite plates, Composite Struct **42**(1) 1-12 (May 1998), 3A769
Study on the compressive strength of laminated composite with through-the-width delamination, Composite Struct **41**(3-4) 229-241 (Mar-Apr 1998), 3A770
Three-dimensionality and effects of void volume fraction on the plate-impact analysis taking account of dynamic void development (Japanese), J Soc Mat Sci Japan **47**(7) 684-690 (Jul 1998), 3A771
New FE model used in post-buckling analysis for delaminated damage of laminated plate-shell (Chinese), J Dalian Univ Tech **38**(5) 511-515 (Sep 1998), 4A26
Characterization of machining-damage layer for optical fiber ends: Relation between damaged layer and return loss, J Japan Soc Precision Eng **64**(10) 1467-1471 (Oct 1998), 5A682
Stress field ahead of mode I delamination crack tip in double cantilever beam specimen of unidirectional fiber reinforced composite (Japanese), J Soc Mat Sci Japan **47**(9) 926-930 (Sep 1998), 5A683
Proceedings of a Symposium on the dynamic deformation and failure mechanics of materials, honoring Professor RJ Clifton, held May 1997 at the California Institute of Tecnology, J Mech Phys Solids **46**(10) 1699-2181 (Oct 1998), 5T734
New FE for global modeling of delaminations in laminated beams, Finite Elements Anal Des **31**(2) 165-177 (Dec 1998), 6A51
Delaminations induced by constrained transverse cracking in symmetric composite laminates, Int J Solids Struct **36**(6) 813-846 (Feb 1999), 6A881
Effects of interface layer and thermal stresses on matrix cracking in fiber reinforced ceramics (Chinese), J Tsinghua Univ Sci Tech **38**(12) 83-87 (Dec 1998), 6A882
Material void-opening computation using particle method, Int J Impact Eng **22**(1) 1-22 (Jan 1999), 7A228
Modeling of adaptive composites including debonding, Int J Solids Struct **36**(12) 1823-1843 (Apr 1999), 7A522
Crack bridging model for bonded plates subjected to tension and bending, Int J Solids Struct **36**(13) 1985-2014 (May 1999), 7A577
Growth simulation of circular buckling-driven delamination, Int J Solids Struct **36**(12) 1799-1821 (Apr 1999), 7A589
Debonding and delamination effects in adhesively bonded cracks on fractal type, J Elast **51**(3) 177-201 (1998), 7A713
Detachment of step-tapered doublers - Part 1: Foundation, Int J Solids Struct **36**(11) 1597-1623 (Apr 1999), 7A714
Detachment of step-tapered doublers - Part 2: Evolution of pressure loaded structures, Int J Solids Struct **36**(11) 1625-1651 (Apr 1999), 7A715
Effects of strain cycling on buckling, cracking and spalling of a thermally grown alumina on a nickel-based bond coat, Acta Mat **47**(2) 699-710 (Jan 1999), 7A716
Finite thickness cracked layer bonded to viscoelastic substrate subjected to antiplane shear, Int J Solids Struct **36**(12) 1781-1797 (Apr 1999), 7A717
Global and local approaches to fracture normal to interfaces, Int J Solids Struct **36**(12) 1845-1864 (Apr 1999), 7A750
Generalized multilength scale nonlinear composite plate theory with delamination, Int J Solids Struct **36**(20) 3015-3050 (Jul 1999), 8A629
Method for modeling the local and global buckling of delaminated composite plates, Composite Struct **44**(1) 43-53 (Jan 1999), 8A667
Low velocity impact and delamination buckling behavior of composite laminates with embedded optical fibers, Smart Mat Struct **8**(1) 41-48 (Feb 1999), 8A759
Geometrical and interfacial nonlinearities in the analysis of delamination in composites, Int J Solids Struct **36**(15) 2189-2216 (May 1999), 8A769
Dynamics of delaminated smart composites cross-ply beams, Smart Mat Struct **8**(1) 92-99 (Feb 1999), 8A848
Cyclic fatigue characteristics and crack extension of a ceramic-metal joint, JSME Int J Ser A **41**(3) 389-394 (Jul 1998), 10A831
Coating life prediction for combustion turbine blades, J Eng Gas Turbines Power **121**(3) 484-488 (Jul 1999), 10A860
Concepts for bridged mode II delamination cracks, J Mech Phys Solids **47**(6) 1265-1300 (Jun 1999), 10A861
Fracture behaviors of CFRP laminates in mode I interlaminar fracture toughness testing, JSME Int J Ser A **41**(2) 225-230 (Apr 1998), 10A862
Mesoscopic fracture mechanism of mode II delamination fatigue crack propagation in interlayer-toughened CFRP, JSME Int J Ser A **40**(4) 423-429 (Oct 1997), 10A863
Numerical simulation of delamination growth in layered composite plates, Eur J Mech A **18**(2) 291-312 (Mar-Apr 1999), 10A864
Validation of 2D calculations of free edge delamination in laminated composites, Composite Struct **45**(3) 233-240 (Jul 1999), 11A759
Estimation method for delamination behavior of FRP-metal adhesive interface (Japanese), J Soc Mat Sci Japan **48**(4) 387-391 (Apr 1999), 12A802

274M. Micromechanisms

Role of discrete failures in local ice loads, Cold Regions Sci Tech **27**(3) 197-211 (Jun 1998), 1A1477
Micro-mechanical modeling of strain induced porosity under generally compressive stress states, Int J Plasticity **14**(7) 577-595 (1998), 2A626
Fiber reinforced composite based functionally gradient materials, Adv Composites Letters **7**(4) 111-115 (1998), 4A600
Nanomechanics and Nanofracture, Eng Fracture Mech **61**(1) 1-187 (Aug 1998), 5A736
Interconnect damage by electromigration: Experiment and numerical simulation, Acta Mat **47**(1) 89-99 (Dec 1998), 6A883
Development of an inhomogeneous damage field in an elastic-plastic model, Fatigue Fracture Eng Mat Struct **21**(11) 1327-1335 (1998), 6A905
Nucleation, blunting or propagation of a nanocrack in dislocation-free zones of thin crystals, Fatigue Fracture Eng Mat Struct **21**(11) 1415-1423 (1998), 6A913
Macrofragmentation and microfragmentation phenomena in composite materials, Composites Part A Appl Sci and Manuf **30A**(1) 59-66 (1999), 6A935
Determination of maximum allowable strain for polysilicon micro-devices, Eng Failure Anal **6**(1) 27-41 (Feb 1999), 6A955
Micromechanical damage theory for brittle materials with small cracks, Fatigue Fracture Eng Mat Struct **21**(11) 1337-1349 (1998), 6A956
Micromechanical modeling of damage and fracture of ductile materials, Fatigue Fracture Eng Mat Struct **21**(10) 1175-1188 (1998), 6A957
Numerical and experimental analysis of quench induced stresses and microstructures, J Mech Behavior Mat **9**(4) 237-256 (1998), 7A481
Effect of microstructural orientation on the stress corrosion behavior of pearlitic steel, J Mech Behavior Mat **9**(3) 163-175 (1998), 7A718
Modeling of resin transfer molding of composite materials with oriented unidirectional plies, Composites Part A Appl Sci and Manuf **30A**(3) 375-383 (1999), 8A760
Coalescence of voids in prestrained notched round copper bars, Fatigue Fracture Eng Mat Struct **21**(12) 1459-1472 (1998), 8A807
Dislocation dynamics simulations in the presence of interacting cracks, J Eng Mat Tech **121**(2) 151-155 (Apr 1999), 8A808
Gradient deformation models at nano, micro, and macro scales, J Eng Mat Tech **121**(2) 189-202 (Apr 1999), 8A809
Oxidation failure of radiant heater tubes, Eng Failure Anal **6**(2) 101-112 (Apr 1999), 9A836
Constitutive relations for elastic microcracked bodies: From a lattice model to a multifield continuum description, Int J Damage Mech **8**(2) 153-173 (Apr 1999), 9A910
Effective elastic compliances and engineering constants for damaged isotropic solids, Int J Damage Mech **8**(2) 138-152 (Apr 1999), 9A911
Macrocrack extension by connecting statistically distributed microcracks, Int J Fracture **90**(4) 341-353 (1998), 9A912
Evaluation of microcrack resistance curves by in-situ measurements, Nucl Eng Des **187**(3) 315-325 (Mar 1999), 9A936
Axisymmetric model of pore-grain boundary separation, J Mech Phys Solids **47**(5) 1131-1155 (May 1999), 10A901
Microdamage accumulation in the cement layer of hip replacements under flexural loading, J Biomech **32**(5) 467-475 (May 1999), 10A1643
Dynamic Monte Carlo microscopic damage model incorporating thermo-mechanical coupling in a unidirectional composite, Composites Sci Tech **59**(6) 947-955 (May 1999), 11A760
Micromechanical simulations of microstructure-sensitive Stage I fatigue crack growth, Fatigue Fracture Eng Mat Struct **22**(3) 215-223 (Mar 1999), 11A761

274X. Stochastic aspects

Assessment for integrity of structures containing defects, Int J Pressure Vessels Piping **75**(4) 343-346 (Apr 1998), 1A857
Knowledge-based multi-dimension discrete common cause failure model, Nucl Eng Des **183**(1-2) 107-116 (Jul 1998), 1A858
Methodology for predicting the occurrence of failure events for pressure vessels used in the process industry, Int J Pressure Vessels Piping **75**(3) 221-228 (Mar 1998), 1A859
Probabilistic estimation of remaining life of a pipeline in the presence of active corrosion defects, Int J Pressure Vessels Piping **75**(4) 321-329 (Apr 1998), 1A860
Probabilistic life assessment of chest valve under thermal stresses, Int J Pressure Vessels Piping **75**(1) 1-5 (Jan 1998), 1A861
Probabilistic model for fracture toughness prediction based on the new local fracture criteria, Int J Pressure Vessels Piping **75**(4) 307-320 (Apr 1998), 1A862
Probabilistic models for condition assessment of oil and gas pipelines, NDT&E Int **31**(5) 349-358 (Oct 1998), 1A863
Probabilistic treatment of fracture using two failure models, Probab Eng Mech **13**(4) 309-319 (Oct 1998), 1A864
Stochastic and deterministic aspects of strain localization during cyclic plastic deformation, Acta Mat **46**(12) 4143-4151 (Jul 1998), 1A865
Stochastic modeling of fatigue crack propagation, Appl Math Model **22**(3) 197-204 (Mar 1998), 1A866
Edge fracture characteristics of abrasive grain, J Manuf Sci Eng **120**(4) 708-714 (Nov 1998), 2A799
Statistical analysis of microcrack accumulation in PMMA under fatigue loading: Applications to orthopaedic implant fixation, Int J Fatigue **20**(8) 581-593 (Sep 1998), 2A854
Statistical investigation of the fatigue lives of Q235 steel-welded joints, Fatigue Fracture Eng Mat Struct **21**(7) 781-790 (1998), 2A855
Effects of flaw sizing errors on the reliability of vessels and piping, J Pressure Vessel Tech **120**(4) 365-373 (Nov 1998), 2A949
Status of code cases related to application of risk-informed inservice inspection in ASME Code Section XI, J Pressure Vessel Tech **120**(4) 438-440 (Nov 1998), 2A1496
Mechanistic prediction of fracture processes in ferritic steel welds within the transition temperature regime, J Eng Mat Tech **120**(4) 328-337 (Oct 1998), 2A1497
Pipe segment failure dependency analysis and system failure probability estimation, Int J Pressure Vessels Piping **75**(6) 483-488 (May 1998), 3A772
Probabilistic failure prediction of SCS-6 and Ti-15-3 MMC ring, J Mech Des **120**(4) 714-720 (Dec 1998), 3A773
Statistical investigation of the behavior of short fatigue crack in medium carbon steels, Acta Mech Solida Sinica **11**(3) 275-281 (1998), 3A774
Study on the reliability assessment methodology for pressure piping containing circumferential defects - I: Computation method of failure probability of welded joint containing circumferential defects, Int J Pressure Vessels Piping **75**(9) 679-684 (Aug 1998), 4A792
Study on the reliability assessment methodology for pressure piping containing circumferential defects - II: Reliability analysis method of a pressure piping system, Int J Pressure Vessels Piping **75**(9) 685-691 (Aug 1998), 4A793
Study on the reliability assessment methodology for pressure piping containing circumferential defects - III: The determination method of acceptable failure probability of a certain pressure piping, Int J Pressure Vessels Piping **75**(9) 693-697 (Aug 1998), 4A794
Reliability of corrosion-damaged steel structures using interval probability theory, Struct Safety **20**(3) 237-255 (1998), 5A673
Cleavage fracture criterion of low alloy steel and weld metal in notched specimens, Int J Fracture **89**(3) 269-284 (1998), 5A684
Definition of a "materials" database for heavy structures by experimental characterization of toughness-impact strength, Nucl Eng Des **185**(2-3) 203-219 (Oct 1998), 5A685
Expected principal stress directions under multiaxial random loading - Part I: Theoretical aspects of the weight function method, Int J Fatigue **21**(1) 83-88 (Jan 1999), 5A686
Expected principal stress directions under multiaxial random loading - Part II: Numerical simulation and experimental assessment through the weight function method, Int J Fatigue **21**(1) 89-96 (Jan 1999), 5A687
Improved probabilistic model for fracture toughness prediction for nuclear pressure vessel steels, Int J Pressure Vessels Piping **75**(12) 843-855 (Oct 1998), 5A688
Random amplitude fatigue life of electroformed nickel micro-channel heat exchanger coupons, Shock Vib **5**(2) 103-110 (1998), 5A689
Weibull stress solutions for 2D cracks in elastic and elastic-plastic materials, Int J Fracture **89**(3) 245-268 (1998), 5A741
Probabilistic assessment of excessive leakage through steam generator tubes degraded by secondary side corrosion, Nucl Eng Des **185**(2-3) 347-359 (Oct 1998), 5A1510
Stochastic Response of Offshore Platforms (Comput Mech, Billerica MA, 1998) 6R17
Optimal estimation of gradient damage parameters from localization phenomena in quasi-brittle materials, Mech Cohesive-Frictional Mat **4**(1) 1-16 (Jan 1999), 6A38
Fatigue life prediction under random loading using total hysteresis energy, Int J Pressure Vessels Piping **75**(13) 955-960 (Nov 1998), 6A884
Probabilistic failure prediction for FRP composites, Composites Sci Tech **58**(12) 1973-1982 (Dec 1998), 6A885
Statistical analysis of defects for fatigue strength prediction and quality control of materials, Fatigue Fracture Eng Mat Struct **21**(9) 1049-1065 (1998), 6A886
Fracture analyses using spring networks with random geometry, Eng Fracture Mech **61**(5-6) 569-591 (Nov-Dec 1998), 6A971
Approximate upper and lower bounds for the strength of unidirectional composites, Composites Sci Tech **59**(1) 89-95 (Jan 1999), 7A529
Nonlinear damage cumulative model for uniaxial fatigue, Int J Fatigue **21**(2) 187-194 (Feb 1999), 7A719
Role of NDE in time-dependent reliability analysis, Struct Safety **20**(4) 325-339 (1998), 7A720
Statistical model of microvoids' evolution in rate sensitive ductile materials - Solution for high stress triaxiality cases, Int J Damage Mech **8**(1) 41-60 (Jan 1999), 7A721
Stochastic fatigue crack growth in steel structures subject to random loading, Struct Safety **20**(4) 303-323 (1998), 7A830
Strength-based reliability and fracture assessment of fuzzy mechanical and structural systems, AIAA J **37**(1) 84-92 (Jan 1999), 7A843
Reliability prediction procedures for mechanical components at the design stage, Proc Inst Mech Eng E **212**(E4) 213-224 (1998), 7A922
Sensitivity of a Weibull failure criterion to singularity strength and local geometry variations, Int J Adhesion Adhesives **19**(1) 71-82 (Feb 1999), 8A761
Statistical modeling of integranular brittle fracture in a low alloy steel, Fatigue Fracture Eng Mat Struct **21**(12) 1485-1502 (1998), 8A762
Modified model for the estimation of fatigue life derived from random vibration theory, Probab Eng Mech **14**(3) 281-288 (Jul 1999), 9A114
Correlation procedures for fatigue life determination, J Mech Des **121**(2) 289-296 (Jun 1999), 9A837

Efficient asymptotic approach for assessing fatigue reliability, J Pressure Vessel Tech **121**(2) 220-224 (May 1999), 9A838
Equivalent life distribution and fatigue failure probability prediction, Int J Pressure Vessels Piping **76**(4) 267-273 (Apr 1999), 9A839
Relationship of the cumulative jump model for random fatigue to empirical data, Probab Eng Mech **14**(3) 257-267 (Jul 1999), 9A840
Statistical model for fatigue crack growth under random loads including retardation effects, Eng Fracture Mech **62**(4-5) 351-369 (Mar 1999), 9A841
Stochastic model of fatigue crack propagation under variable-amplitude loading, Eng Fracture Mech **62**(4-5) 477-493 (Mar 1999), 9A842
Stochastic theory for the problem of multiple surface crack coalescence, Int J Fracture **91**(1) 23-45 (1998), 9A843
Direct spectral fatigue analysis method for offshore structures, Int J Offshore Polar Eng **9**(1) 55-61 (Mar 1999), 10A865
Efficiency of identification of a stochastic crack propagation model based on Virkler experimental data, Arch Mech **50**(5) 829-847 (1998), 10A866
Fatigue-life prediction of SiC aluminum composite using a Weibull model, NDT&E Int **32**(5) 265-274 (Jul 1999), 10A867
Statistical analysis and reliability prediction with short fatigue crack data, Fatigue Fracture Eng Mat Struct **22**(1) 67-76 (1999), 10A868
Statistical analysis of fatigue crack growth for 16MnR steel under constant amplitude loads, Int J Pressure Vessels Piping **76**(6) 379-385 (May 1999), 10A869
Statistical models of brittle deformation - Part I: Introduction, Int J Plasticity **15**(4) 401-426 (1999), 10A870
Statistical models of brittle deformation - Part II: Computer simulations, Int J Plasticity **15**(4) 427-456 (1999), 10A871
Comparison of experimental assessment methods to estimate the strength of gear teeth, Proc Inst Mech Eng C **213**(C3) 291-301 (1999), 11A762
Cost-based optimal history-dependent inspection strategy for random fatigue crack growth, Probab Eng Mech **14**(4) 339-347 (Oct 1999), 11A763
Critical plane approach based on energy concepts: Application to biaxial random tension-compression high-cycle fatigue regime, Int J Fatigue **21**(5) 431-443 (May 1999), 11A764
Cyclic stress-strain curves generated from random cyclic strain amplitude tests, Int J Fatigue **21**(6) 521-530 (Jul 1999), 11A765
Fatigue behavior of induction hardened notched components, Int J Fatigue **21**(6) 611-617 (Jul 1999), 11A766
Method for fatigue based reliability when the loading of a component is unknown, Int J Fatigue **21**(6) 603-610 (Jul 1999), 11A767
Probabilistic damage accumulation solution based on crack closure model, Int J Fatigue **21**(6) 531-547 (Jul 1999), 11A768
Shear strain based multiaxial fatigue parameters applied to variable amplitude loading, Int J Fatigue **21**(5) 475-483 (May 1999), 11A769
Statistical analysis of data from truncated fatigue life and corresponding residual strength experiments for polymer matrix composites, Int J Fatigue **21**(6) 581-585 (Jul 1999), 11A770
Analysis of ductile to cleavage transition in part-through cracks using a cell model incorporating statistics, Fatigue Fracture Eng Mat Struct **22**(3) 239-250 (Mar 1999), 11A795
Reliability of structures containing short cracks, J Offshore Mech Arctic Eng **121**(3) 153-158 (Aug 1999), 11A885
Direct spectral fatigue analysis method for offshore structures, Int J Offshore Polar Eng **9**(2) 134-140 (Jun 1999), 12A803
Probabilities of occurrence and detection of damage in airframe materials, Fatigue Fracture Eng Mat Struct **22**(5) 427-436 (1999), 12A804
Reduced random stress under multiaxial static-dynamic loading, Marine Tech Trans **9** 119-132 (1998), 12A805
Statistical modeling of creep rupture data, J Eng Mat Tech **121**(3) 264-271 (Jul 1999), 12A806
Probabilistic model for the analysis of dynamic cone penetrometer test values in pavement structure evaluation, J Test Eval **27**(1) 7-14 (Jan 1999), 12A860
Probabilistic assessment of reactor pressure vessel integrity under pressurized thermal shock, Int J Pressure Vessels Piping **76**(7) 445-453 (Jun 1999), 12A1570

274Y. Computational techniques

Fatigue life calculation of flawed structures: Based on artificial neural network with special learning set, Int J Pressure Vessels Piping **75**(3) 263-269 (Mar 1998), 1A441
Evaluation of stress transfer mechanism in single fiber pull-out test by numerical analysis (Japanese), J Soc Mat Sci Japan **47**(6) 612-617 (Jun 1998), 1A855
Description of macroscopic damage through microstructural relaxation, Int J Numer Methods Eng **43**(3) 493-506 (Oct 1998), 2A856
Multi-scale numerical modeling of crack propagation in a 2D metallic plate, J Comput-Aided Mat Des **4**(3) 165-173 (Mar 1998), 2A857
Merging of fatigue and fracture mechanics concepts: A historical perspective, Prog Aerospace Sci **34**(5-6) 347-390 (Jul-Aug 1998), 4T775
Fiber bundle approach to a damage analysis, Int J Eng Sci **36**(15) 1741-1762 (Dec 1998), 5A690
Fitting a fatigue model to data, Int J Fatigue **21**(1) 97-106 (Jan 1999), 5A691
Fracture analysis of delamination failure in angle-ply elastomer composites, Polymers and Polymer Composites **6**(7) 439-445 (1998), 7A767
Tools for a multiaxial random fatigue analysis with FEs, European J Mech Eng **44**(1) 11-15 (1999), 10A872

274Z. Experimental techniques

Mechanical Behavior of Materials (Prentice Hall, Upper Saddle River, NJ, 1999) 1R10
Opening-mode dominated crack growth along inclined interfaces: Experimental observations, Int J Solids Struct **35**(30) 3961-3975 (Oct 1998), 1A827
Optimum jack loads for static and fatigue tests, J Aircraft **35**(4) 598-603 (Jul-Aug 1998), 1A1015
Experimental study on load carrying capacity of tubular members with crack damage (Chinese), J Huazhong Univ Sci Tech **26**(5) 54-57 (May 1998), 2A826
Effects of frequency on the fretting conditions in a contact between PMMA and a rigid counterface, J Trib **120**(4) 729-736 (Oct 1998), 2A850
Detecting impact damage in a composite material with an optical fiber vibration sensor system, Smart Mat Struct **7**(4) 543-549 (Aug 1998), 2A858
Development of thermal fatigue testing apparatus with BWR water environment and thermal fatigue strength of austenitic stainless steels, Nucl Eng Des **184**(1) 113-122 (Aug 1998), 3A775
Fracture of FRP plates containing blunt and shallow notches under static loads (Japanese), J Soc Mat Sci Japan **47**(7) 712-718 (Jul 1998), 3A776
On-line monitoring system for single edge crack based on multi-terminal potential drop method (Japanese), J Soc Mat Sci Japan **47**(7) 749-754 (Jul 1998), 3A777
Time domain approach to load reconstruction for durability testing, Eng Failure Anal **5**(2) 113-119 (Jun 1998), 3A778
Small punch tests to estimate the mechanical properties of steels for steam power plant - II: Fracture toughness, Int J Pressure Vessels Piping **75**(9) 707-713 (Aug 1998), 4A586
In-situ measurement of near-surface fretting contact temperatures in an aluminum alloy, J Trib **121**(1) 11-19 (Jan 1999), 4A789
Infrared interferometer for elastoplastic crack-tip field investigation of homogeneous and bimaterial beams: A study of 3D effects and J-dominance, J Appl Mech **65**(4) 1032-1041 (Dec 1998), 5A692
Toughness losses in low alloy steels at high temperatures: An appraisal of certain factors concerning the small punch test, Int J Pressure Vessels Piping **75**(11) 791-804 (Sep 1998), 5A744
Fundamentals of Ultrasonic Nondestructive Evaluation: A Modeling Approach (Plenum, New York, 1998) 6R14
Steam tube defect characterization using eddy current Z-parameters, Res Nondestructive Eval **10**(4) 227-252 (1998), 6A887
X-ray fractography on rotating bending fatigue fractured surfaces, J Soc Mat Sci Japan **47**(11) 1164-1169 (Nov 1998), 6A888
R-curve testing and its relevance to structural assessment, Fatigue Fracture Eng Mat Struct **21**(10) 1259-1271 (1998), 6A976
Ultrasonic guided wave NDT for hidden corrosion detection, Res Nondestructive Eval **10**(4) 205-225 (1998), 6A999
Measuring the shape and size of microcracks in bone, J Biomech **31**(12) 1177-1180 (Dec 1998), 6A1573
Separation of measured fatigue crack stress fields in a metal matrix composite material, Acta Mat **47**(2) 585-593 (Jan 1999), 7A722
Assessment of low cycle fatigue damage using magnetic Barkhausen emission in 9Cr-1Mo ferritic steel, Int J Fatigue **21**(3) 263-269 (Mar 1999), 9A844
Coupon development for fatigue testing of bonded assemblies of pultruded rods, Composites Part A Appl Sci and Manuf **30A**(5) 611-613 (1999), 9A845
Theory and experiment, Int J Fracture **90**(1-2) 1-174 (1998), 9A909
Effects of crack starter bead preparation in drop-weight test on nil-ductility transition temperature, J Pressure Vessel Tech **121**(2) 196-202 (May 1999), 9A935
Fatigue-fractured surfaces of epoxy adhesives and fractals under mode I cyclic loading, JSME Int J Ser A **41**(3) 380-388 (Jul 1998), 10A873
Measurement of fatigue crack growth in large compact tension specimens using an AC magnetic field method, Fatigue Fracture Eng Mat Struct **22**(1) 3-9 (Jan 1999), 10A874
Significance of fractography for investigations of fatigue crack growth under variable-amplitude loading, Fatigue Fracture Eng Mat Struct **22**(2) 87-99 (1999), 10A875
Compressive damage of carbon fibers and their crystalline structures (Japanese), J Soc Mat Sci Japan **48**(3) 269-274 (Mar 1999), 11A771
Application of focused ion beam microscopy to the study of crack profiles, Fatigue Fracture Eng Mat Struct **22**(3) 251-256 (1999), 11A827
ISO test method to determine sustained-load-cracking resistance of aluminium cylinders, J Pressure Vessel Tech **121**(3) 311-314 (Aug 1999), 11A830
Cyclic stress-strain data analysis under biaxial tensile stress state, Exp Mech **39**(2) 92-102 (Jun 1999), 11A832
Nondestructive detection of cracks in tubular T-joints using vibration characteristics, J Offshore Mech Arctic Eng **121**(3) 144-152 (Aug 1999), 11A853
Dynamic prognostic prediction of defect propagation on rolling element bearings, Trib Trans **42**(2) 385-392 (Apr 1999), 11A991
Smoothing and differentiating load-displacement data using a low-pass filter for improved crack opening load estimates, Fatigue Fracture Eng Mat Struct **22**(4) 273-279 (Apr 1999), 12A807
Nondestructive characterization of adhesive joint durability using ultrasonic reflection measurements, Res Nondestructive Eval **11**(2) 81-95 (1999), 12A872
Apparatus for quantitative fretting fatigue testing, Fatigue Fracture Eng Mat Struct **22**(4) 307-320 (Apr 1999), 12A975

276. FRACTURE AND DAMAGE MECHANICS

Mobility of non-planar screw dislocations ahead of a mode III crack tip, Mech Mat **31**(6) 367-379 (Jun 1999), 11A772

276A. General theory

Damage Mechanics in Engineering Materials (Elsevier Sci, New York, 1998) 1N16
Fatigue, Fracture, and High Temperature Design Methods in Pressure Vessels and Piping - 1998 (ASME, New York, 1998) 1N17
Fatigue, Fracture, and Residual Stresses (ASME, New York, 1998) 1N18
High Pressure Technology (ASME, New York, 1998) 1N19
Continuum damage constitutive law for brittle rocks, Comput Geotech **22**(2) 135-151 (1998), 1A755
Note on modeling short fatigue crack behavior, Fatigue Fracture Eng Mat Struct **21**(6) 771-779 (1998), 1A844
Analytical derivation and investigation of the interface crack models, Int J Solids Struct **35**(33) 4477-4489 (Nov 1998), 1A867
Continuum damage mechanics theory and application - Part I: Theory, Int J Damage Mech **7**(3) 250-273 (Jul 1998), 1A868
Continuum damage mechanics theory and application - Part II: Application, Int J Damage Mech **7**(3) 274-297 (Jul 1998), 1A869
Order of singularity in the problems of mechanics of brittle failure of materials with initial stresses, Prikl Mekh (Appl Mech) **34**(2) 3-8 (1998), 1A870
Second variation of energy and an associated line independent integral in fracture mechanics - II: Numerical validations, Eur J Mech A **17**(4) 541-565 (1998), 1A871
Special topics in structural mechanics and materials: A volume in honor of Professor Zdenek P Bazant, Int J Solids Struct **35**(31-32) 4025-4350 (Nov 1998), 1T872
Mode I fracture of shape memory alloy plates, Smart Mat Struct **7**(4) 433-437 (Aug 1998), 2A859
Structural Life Assessment Methods (ASM Int, Materials Park OH, 1998) 3R16
Statistical Physics of Fracture and Breakdown in Disordered Systems (Oxford UP, New York, 1997) 3N22
Computational modeling of steady crack extension in poroelastic media, Int J Solids Struct **35**(34-35) 4869-4885 (Dec 1998), 3A7
Indentation of a sharp penetrometer in a poroelastic medium, Int J Solids Struct **35**(34-35) 4895-4904 (Dec 1998), 3A497
Brittle to quasi-brittle transition, Meccanica **33**(4) 363-379 (Aug 1998), 3A779
Dynamic response of a crack in a functionally graded material between two dissimilar half planes under anti-plane shear impact, Eng Fracture Mech **60**(4) 479-487 (Jul 1998), 3A780
Fracture Research in Retrospect (Balkema, Rotterdam, Netherlands, 1997) 4N15
Effect of history on hydrogen assisted cracking - 2: A revision of K-dominance, Int J Fracture **88**(3) 247-258 (1998), 4A784
Extension of the static shakedown theorem to inelastic cracked structures, Int J Mech Sci **41**(2) 163-177 (Feb 1999), 4A795
Investigation on the fracture of a hook made of a precipitation, Papers Ship Res Inst **35**(2) 59-70 (1998), 4A796
Simplified models of damage for the analysis of steel structures (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 279-292 (1998), 4A797
Stable crack growth along a brittle-ductile interface - II: Small scale yielding solutions and interfacial toughness predictions, Int J Solids Struct **36**(1) 1-34 (Jan 1999), 4A798
T-stress based fracture model for cracks in isotropic materials, Eng Fracture Mech **60**(5-6) 543-561 (Jul 1998), 4A799
Atlas of Fibre Fracture and Damage to Textiles, Second Edition (CRC Press, Boca Raton FL, 1998) 5N19
Comparative analysis of several nonlocal fracture criteria, Arch Appl Mech **68**(9) 597-612 (Nov 1998), 5A693
Continuum theory of cohesive zone models: Deformation and constitutive equations, Int J Eng Sci **36**(15) 1763-1792 (Dec 1998), 5A694
Framework for geometrically nonlinear continuum damage mechanics, Int J Eng Sci **36**(15) 1793-1814 (Dec 1998), 5A695
Applied Mechanics Division Book of Abstracts - 1998 (ASME, New York, 1998) 6N6
Damage mechanics: Basic variables in continuum theories, Int J Solids Struct **36**(5) 747-761 (Feb 1999), 6A1
Modeling void nucleation and growth within periodic clusters of particles, J Mech Phys Solids **47**(1) 1-26 (Jan 1999), 6A8
Features of failure waves in highly-homogeneous brittle materials, J Appl Math Mech **62**(4) 657-663 (1998), 6A216
Elastoplastic material with isotropic damage, Int J Solids Struct **36**(5) 727-747 (Feb 1999), 6A889
Network approach to fracture: The effect of heterogeneity and loading conditions, Pure Appl Geophys **152**(4) 641-665 (Oct 1998), 6A890
Mechanical Behavior of Advanced Materials (ASME, New York, 1998) 7N20
New boundary integral formulation for plane elastic bodies containing cracks and holes, Int J Solids Struct **36**(14) 2041-2074 (May 1999), 7A66
Energy-based damage model of geomaterials - I: Formulation and numerical results, Int J Solids Struct **36**(12) 1719-1734 (Apr 1999), 7A646
Energy-based damage model of geomaterials - II: Deduction of damage evolution laws, Int J Solids Struct **36**(12) 1735-1755 (Apr 1999), 7A647
"Damage cascade" in a softening interface, Int J Solids Struct **36**(10) 1403-1426 (Apr 1999), 7A723
Combination of fracture and damage mechanics for numerical failure analysis, Int J Solids Struct **36**(8) 1169-1191 (Mar 1999), 7A724
New CDM-based approach to structural deterioration, Int J Solids Struct **36**(12) 1757-1779 (Apr 1999), 7A725
Time-dependent failure analysis of inclined boreholes in fluid-saturated formations, J Energy Resources Tech **121**(1) 31-39 (Mar 1999), 7A726
Failure model for ligaments, J Biomech **32**(2) 183-188 (Feb 1999), 7A1602
Influence of hydrostatic stress on failure of axisymmetric notched specimens, J Mech Phys Solids **47**(3) 643-667 (Mar 1999), 8A520
Cavitation, post-cavitation and yield in amorphous polymer-rubber blends, J Mech Phys Solids **47**(4) 843-876 (Apr 1999), 8A535
Continuum modeling and numerical simulation of material damage at finite strains, Arch Comput Methods Eng **5**(4) 311-384 (1998), 8A763
Self-consistent analysis for coupled elastoplastic damage problems, Appl Math Mech **19**(12) 1217-1226 (Dec 1998), 8A764
Validation and internal length scale determination for a gradient damage model: Application to short glass-fiber reinforced polypropylene, Int J Solids Struct **36**(17) 2557-2583 (Jun 1999), 8A765
Constitutive parameters and their evolution, Control and Cybernetics **27**(2) 295-310 (1998), 9A846
Explicit formulations for the L-integral, Acta Mech Solida Sinica **12**(1) 74-82 (1999), 9A847
Variational formulation for nonlocal damage models, Int J Plasticity **15**(2) 119-138 (1999), 9A848
Virtual crack extension in geometries under large displacements-rotations, Int J Fracture **89**(4) 309-331 (1998), 9A849
Probabilistic approaches for optimal beam design based on fracture mechanics, Meccanica **34**(1) 29-38 (Feb 1999), 9A969
Boundary element application for mixed mode loading idealized sawtooth fracture surface, Int J Solids Struct **36**(21) 3239-3252 (Jul 1999), 10A79
Fundamental solution for a penny-shaped crack in a piezoelectric medium, J Mech Phys Solids **47**(7) 1459-1475 (Jul 1999), 10A751
Boundary element formulation for a class of non-local damage models, Int J Solids Struct **36**(24) 3617-3638 (Aug 1999), 10A876
Damage detection with spatial wavelets, Int J Solids Struct **36**(23) 3443-3468 (Aug 1999), 10A877

Ductile fracture of materials with high void volume fraction, Int J Solids Struct **36**(23) 3407-3425 (Aug 1999), 10A878
Exact solution of the 3D-problem of an interface semi-infinite plane crack, J Mech Phys Solids **47**(5) 1051-1093 (May 1999), 10A879
Investigation of a Griffith crack subject to anti-plane shear by using the non-local theory, Int J Solids Struct **36**(26) 3891-3901 (Sep 1999), 10A880
Mixed mode fracture in epicycloid specimens - III: Dislocations, Int J Solids Struct **36**(22) 3339-3348 (Aug 1999), 10A881
Modeling unilateral damage effect in strongly anisotropic materials by the introduction of the loading mode in damage mechanics, Int J Solids Struct **36**(28) 4269-4287 (Oct 1999), 10A882
Three-dimensional ellipsoidal flaw model for brittle fracture in compression, Int J Solids Struct **36**(27) 4089-4109 (Sep 1999), 10A883
Constitutive theory for the damage of materials with dynamic micro void evolution processes, JSME Int J Ser A **41**(1) 66-78 (Jan 1998), 10A938
Isothermic fatigue formulation using the continuum mechanics frame work, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 113-133 (1999), 11A11
Probabilistic damage accumulation solution based on crack closure model, Int J Fatigue **21**(6) 531-547 (Jul 1999), 11A768
Development of a multiaxial fatigue theory by considering constraint effects on small mixed-mode cracks, Int J Solids Struct **36**(30) 4543-4562 (Oct 1999), 11A773
Fresh perspectives regarding scaling of the failure of quasi-brittle materials, Int J Eng Sci **37**(10) 1251-1259 (Aug 1999), 11A774
Model of damage for steel frame members, Eng Struct **21**(10) 954-964 (Oct 1999), 11A775
Variational formulation of softening phenomena in fracture mechanics: The 1D case, Arch Rational Mech Anal **146**(1) 23-58 (1999), 11A776
Constitutive framework of plastically deformed damaged continuum and a formulation using the endochronic concept, Int J Solids Struct **36**(33) 5057-5087 (Nov 1999), 12A6
Determination of the driving force acting on a kinked crack, Arch Appl Mech **69**(5) 337-344 (Jun 1999), 12A808
Energy minimizing brittle crack propagation, J Elast **52**(3) 201-238 (1998), 12A809
Isotropic damage model based on a tensorial representation of damage, Int J Damage Mech **8**(3) 254-272 (Jul 1999), 12A810
Self-consistent approach to coalescence of cavities in inhomogeneously voided ductile solids, J Mech Phys Solids **47**(9) 1823-1841 (Sep 1999), 12A811
Ubiquity of fracture in nonlinear elasticity, J Elast **52**(3) 257-266 (1998), 12A812
Void-crack nucleation model for ductile metals, Int J Solids Struct **36**(33) 5029-5055 (Nov 1999), 12A813

276B. Linear elastic fracture mechanics

First stage in the development of micromechanical simulations of the crystallographic propagation of fatigue cracks under multiaxial loading, Fatigue Fracture Eng Mat Struct **21**(6) 661-672 (1998), 1A826
Experimental study of the effect of a flaw at a notch root on the fatigue life of cast Al 319, Int J Fatigue **20**(7) 517-530 (Aug 1998), 1A837
Electric-field induced interfacial cracking in multilayer electrostrictive actuators, J Mech Phys Solids **46**(8) 1301-1318 (Aug 1998), 1A853
Periodic cracking of elastic coatings, Int J Solids Struct **35**(28-29) 3615-3634 (Oct 1998), 1A873
Fracture mechanics approach to penetration of bottom crevasses on glaciers, Cold Regions Sci Tech **27**(3) 213-223 (Jun 1998), 1A1473
Artificial retardation of fatigue crack growth by the infiltration of cracks by foreign materials, Fatigue Fracture Eng Mat Struct **21**(7) 835-846 (1998), 2A823
Crack closure and the fatigue-crack propagation threshold as a function of load ratio, Fatigue Fracture Eng Mat Struct **21**(7) 847-855 (1998), 2A824
Cracks emanating from an erosion in a pressurized autofrettaged thick-walled cylinder - Part I: Semi-circular and arc erosions, J Pressure Vessel Tech **120**(4) 349-353 (Nov 1998), 2A860
Cracks emanating from an erosion in a pressurized autofrettaged thick-walled cylinder - Part II: Erosion depth and ellipticity effects, J Pressure Vessel Tech **120**(4) 354-358 (Nov 1998), 2A861
Self-similar crack expansion method for 3D cracks under mixed-mode loading conditions, J Appl Mech **65**(3) 557-565 (Sep 1998), 2A862
Energy criteria and cumulative damage during fatigue crack growth, Int J Fatigue **20**(9) 641-649 (Oct 1998), 3A648
Improvement on prediction of fatigue crack growth from low cycle fatigue properties, Eng Fracture Mech **60**(4) 397-406 (Jul 1998), 3A735
Simplified model for the fatigue growth analysis of surface cracks in round bars under mode I, Int J Fatigue **20**(10) 711-718 (Nov 1998), 3A741
Fatigue crack growth thresholds: The influence of Young's modulus and fracture surface roughness, Int J Fatigue **20**(10) 737-742 (Nov 1998), 3A759
Derivation of crack closure and crack growth rate data from effective-strain fatigue life data for fracture mechanics fatigue life predictions, Int J Fatigue **20**(10) 703-710 (Nov 1998), 3A781
Failure assessment on M300 grade maraging steel cylindrical pressure vessels with an internal surface crack, Int J Pressure Vessels Piping **75**(7) 537-543 (Jun 1998), 3A782
General BE analysis of 2D linear elastic fracture mechanics, Int J Fracture **88**(1) 41-59 (1997), 3A783
Influence of the interface thickness on fracture parameters, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **322**(7) 533-539 (Apr 1996), 3A784
Fracture at the exit of the hole during the ultrasonic drilling of engineering ceramics, J Mat Processing Tech **84**(1-3) 20-24 (Dec 1998), 4A735
Part-through cracks in pipes under cyclic bending, Nucl Eng Des **185**(1) 1-10 (Sep 1998), 4A769
Modeling the stress-strain diagram for brittle rock loaded in compression, Mech Mat **30**(3) 243-251 (Nov 1998), 4A800
New insights into crack analysis: General solution vs LEFM, Eng Fracture Mech **60**(5-6) 501-506 (Jul 1998), 4A801
Recording acoustic emission waves produced by fatigue cracks, Russian Ultrasonics **28**(3) 82-97 (1998), 5A266
Dugdale model for circumferential through-cracks in cylindrical shells under combined tension and bending, Mech Res Commun **25**(6) 671-678 (Nov-Dec 1998), 5T696
Premature failure of prestressed steel bars, Eng Failure Anal **5**(3) 219-227 (Sep 1998), 5A697
Effect of a layer on a 3D crack within the substrate of a layer-substrate system, Math Mech Solids **3**(4) 433-446 (Dec 1998), 5A701
Equilibrium of piezoceramic cylinder with an elliptical crack (Russian), Prikl Mekh (Appl Mech) **34**(8) 40-48 (1998), 6A715
Centrally cracked thin circular disk - Part II: Mixed mode fatigue crack propagation, Int J Plasticity **14**(12) 1241-1264 (1998), 6A842
Effect of L-T_p ratio on fatigue life prediction of SMAW cruciform joints of ASTM 517 "F" Grade steels, Int J Pressure Vessels Piping **75**(13) 907-918 (Nov 1998), 6A844
Small crack growth and fatigue life predictions for high-strength aluminum alloys - Part I: Experimental and fracture mechanics analysis, Fatigue Fracture Eng Mat Struct **21**(11) 1289-1306 (1998), 6A858
E-integral analysis of a crack with parallel interacting cracks (Japanese), J Soc Mat Sci Japan **47**(10) 1059-1064 (Oct 1998), 6A891
Evaluation of fracture mechanics quarter-point displacement techniques used for computing stress intensity factors, Eng Struct **21**(5) 406-415 (May 1999), 6A892
In-plane loading of rigid disc inclusion embedded in a crack, Int J Solids Struct **36**(11) 1701-1714 (Apr 1999), 7A471
Fatigue crack growth life of thick-walled cylinders with an external radial cracks, Int J Fatigue **21**(2) 135-146 (Feb 1999), 7A687
Fatigue-life prediction methodology using small-crack theory, Int J Fatigue **21**(2) 109-119 (Feb 1999), 7A688
Effect of load ratio on the fatigue crack growth behavior of DISPAL 2 alloy, Int J Fatigue **21**(2) 169-172 (Feb 1999), 7A693
Antiplane multiple holes and cracks problem of half-plane region (Chinese), J Shanghai Jiaotong Univ **32**(11) 66-70 (Nov 1998), 7A727
Elastic fracture properties of all-steel gas cylinders with different crack types, Int J Pressure Vessels Piping **76**(1) 23-33 (Jan 1999), 7A728
Three collinear cracks in plane elasticity and a related problem, Z Angew Math Mech **78**(12) 855-860 (1998), 7A729
Parametric FE study of cracked plates and shells, Thin-Walled Struct **33**(3) 211-229 (Mar 1999), 8A22
Exact solutions for the plane problem in piezoelectric materials with an elliptic or a crack, Int J Solids Struct **36**(17) 2527-2540 (Jun 1999), 8A672
Bimodal concept of high-cycle fatigue life prediction for constant and variable amplitude fatigue, Fatigue Fracture Eng Mat Struct **21**(12) 1559-1574 (1998), 8A734
Antiplane multiple cracks problems of bi-material with circular interface (Chinese), J Shanghai Jiaotong Univ **32**(12) 69-73 (Dec 1998), 8A766
Antiplane multiple curved crack problem in circular inclusion and matrix materials, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 37-42 (Dec 1998), 8A767
Nature of stress singularities at the reentrant wedge corner for a branched crack problem, J Appl Mech **66**(1) 278-289 (Mar 1999), 8A768
Fracture assessment of a high strength structural steel on the basis of Eurocode 3, Mat Struct **32**(216) 144-150 (Mar 1999), 8A872
Fatigue crack propagation under non-proportional mixed mode loading, Eng Fracture Mech **62**(2-3) 203-229 (Jan-Feb 1999), 9A800
Contact crack problem in an infinite plate, Int J Eng Sci **37**(5) 621-630 (Apr 1999), 9A850
Interaction of two parallel non-coplanar identical surface cracks under tension and bending, Int J Pressure Vessels Piping **76**(3) 135-145 (Mar 1999), 9A851
Boundary Element Methods for Damage Tolerance Design of Aircraft Structures (Comput Mech, Billerica MA, 1998) 10R12
Macrocrack-microcrack interaction in piezoelectric materials - Part I: Basic formulations and J-analysis, J Appl Mech **66**(2) 514-521 (Jun 1999), 10A756
Macrocrack-microcrack interaction in piezoelectric materials - Part II: Numerical results and discussions, J Appl Mech **66**(2) 522-527 (Jun 1999), 10A757
Fracture toughness of cementitious materials by SiGMA procedure, Proc JSCE **613**(V-42) 269-276 (Feb 1999), 10A821
Analysis of the driving forces for multiple cracks in an infinite nonhomogeneous plate - Part I: Theoretical analysis, J Appl Mech **66**(2) 492-500 (Jun 1999), 10A884
Analysis of the driving forces for multiple cracks in an infinite nonhomogeneous plate - Part II: Numerical solutions, J Appl Mech **66**(2) 501-506 (Jun 1999), 10A885
Fracture of concrete cover: Its effect on tension stiffening and modeling, Proc JSCE **613**(V-42) 295-307 (Feb 1999), 10A886
Spatially averaged tensile mechanics for cracked concrete and reinforcement under highly inelastic range, Proc JSCE **613**(V-42) 277-293 (Feb 1999), 10A887
Crack problem in piezoelectric materials: General anti-plane mechanical loading, Mech Mat **31**(6) 395-406 (Jun 1999), 11A777
Crack propagation from a preexisting flaw at a notch root (French), Comptes Rendus L'Acad Sci Serie II **327**(6) 581-587 (Jun 1999), 11A778
Interaction of two parallel semi-elliptical surface cracks under tension and bending, J Pressure Vessel Tech **121**(3) 323-326 (Aug 1999), 11A779
Interface crack tip singularity with contact and friction (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 437-442 (May 1999), 11A780
Recent developments in fatigue and fracture mechanics-based analysis and design of structures, J Struct Eng (India) **26**(1) 1-86 (Apr 1999), 11T907
Exact solution of a semi-infinite crack in an infinite piezoelectric body, Arch Appl Mech **69**(5) 309-316 (Jun 1999), 12A684
Integral equation methods and numerical solutions of crack and inclusion problems in planar elastostatics, SIAM J Appl Math **59**(3) 965-982 (Dec 1998), 12A814

276C. Nonlinear elastic fracture problems

Nonlinear creep and failure of plane bodies under high-frequency cyclic loading, Prikl Mekh (Appl Mech) **34**(3) 97-103 (1998), 1A828
Advances in failure mechanisms in brittle materials, Mech Mat **29**(3-4) 143-340 (Aug 1998), 2A863
Plastic fracture mechanics analysis of small Case B fatigue cracks under multiaxial loading conditions, J Eng Gas Turbines Power **120**(4) 796-800 (Oct 1998), 2A870
Crack paths in 3D elastic solids - II: Three-term expansion of the stress intensity factors - applications and perspectives, Int J Solids Struct **36**(1) 105-142 (Jan 1999), 4A836
Diverging concertina tearing, J Appl Mech **65**(4) 990-997 (Dec 1998), 5A698
Geometrical and interfacial nonlinearities in the analysis of delamination in composites, Int J Solids Struct **36**(15) 2189-2216 (May 1999), 8A769
Nonlinear crack theory, J Appl Math Mech **62**(5) 807-817 (1998), 8A770
IUTAM Symposium of Non-Linear Singularities in Deformation and Flow (Kluwer, Netherlands, 1998) 9N5
Cell model for nonlinear fracture analysis - I: Micromechanics calibration, Int J Fracture **89**(4) 355-373 (1998), 9A852
Cell model for nonlinear fracture analysis - II: Fracture-process calibration and verification, Int J Fracture **89**(4) 375-398 (1998), 9A853
Upper and lower bounds for evaluation of nonlinear fracture parameters, Eng Fracture Mech **62**(2-3) 185-201 (Jan-Feb 1999), 9A854
Study of the stressed state of piezoceramic body containing the external elliptical crack (Russian), Prikl Mekh (Appl Mech) **35**(1) 37-44 (1999), 10A763
Small scale nonlinear analysis of electrostrictive, J Mech Phys Solids **47**(6) 1379-1395 (Jun 1999), 10A888
Nonlinear Fracture Mechanics for Engineers (CRC Press, Boca Raton FL, 1998) 11R16
Biaxial crushing of honeycombs - Part I: Experiments, Int J Solids Struct **36**(29) 4367-4396 (Oct 1999), 11A486
In-plane biaxial crushing of honeycombs - Part II: Analysis, Int J Solids Struct **36**(29) 4397-4423 (Oct 1999), 11A488
Ubiquity of fracture in nonlinear elasticity, J Elast **52**(3) 257-266 (1998), 12A812

276D. Stress intensity factor calculations

Influence functions for inclined edge cracks, Fatigue Fracture Eng Mat Struct **21**(6) 761-769 (1998), 1A874
Weight functions from FE displacements, Int J Pressure Vessels Piping **75**(3) 229-236 (Mar 1998), 1A875
Influence of the interface thickness on fracture parameters, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **322**(7) 533-539 (Apr 1996), 3A784
Circumferential surface flaws in pipes under cyclic axial loading, Eng Fracture Mech **60**(4) 383-396 (Jul 1998), 3A785
Internally circumferentially cracked cylinders with functionally graded material properties, Int J Pressure Vessels Piping **75**(6) 499-507 (May 1998), 3A786
Modal approach for processing one - and three-point bend test data for DSIF-time diagram determination - Part II: Calculations and results, Fatigue Fracture Eng Mat Struct **21**(8) 1015-1026 (1998), 3A787
Modal approach for processing one- and three-point bend test data for DSIF-time diagram determination - Part I: Theory, Fatigue Fracture Eng Mat Struct **21**(8) 1007-1014 (1998), 3A788
New definition of stress intensity factors for an interface crack with physical meaning (Japanese), J Soc Mat Sci Japan **47**(8) 804-807 (Aug 1998), 3A789
Periodic array of cracks in a functionally graded nonhomogeneous medium loaded under in-plane normal and shear, Int J Fracture **88**(2) 107-128 (1997), 3A790
Shape sensitivity analysis of stress intensity factors by generalized J-integrals, Math Methods Appl Sci **21**(14) 1343-1363 (Sep 1998), 3T791
Stress intensities at spot welds, Int J Fracture **88**(2) 167-185 (1997), 3A792
Stress intensity factor for a crack normal to an interface between two orthotropic materials, Int J Fracture **88**(1) 19-39 (1997), 3A793
Stress intensity factor for bimaterial medium with a 3D interface crack (Chinese), J Xi'an Jiaotong Univ **32**(9) 81-83 (1998), 3A794
Closed form stress intensity factor of an arbitrarily located inner-surface circumferential crack in an edge-restraint cylinder under linear radial temperature distribution, Eng Fracture Mech **60**(5-6) 519-527 (Jul 1998), 4A802
Effect of a graded interlayer on the stress intensity factor of cracks in a joint under thermal loading, Eng Fracture Mech **60**(5-6) 615-623 (Jul 1998), 4A803
Stress intensity factors and T-stress in edge-cracked rectangular plates under mixed boundary conditions, Eng Fracture Mech **60**(5-6) 625-630 (Jul 1998), 4A804
Stresses at joints and cracks in highway and airport pavements, Eng Fracture Mech **60**(5-6) 507-518 (Jul 1998), 4A805
Stress concentration and local behavior of prestressed composite laminates-sandwich plates with overhangs in cylindrical bending, Composite Struct **42**(3) 203-215 (Jul 1998), 5A527
Stress field ahead of mode I delamination crack tip in double cantilever beam specimen of unidirectional fiber reinforced composite (Japanese), J Soc Mat Sci Japan **47**(9) 926-930 (Sep 1998), 5A683
Analysis of asymmetric kinked cracks of arbitrary size, location and orientation - Part I: Remote compression, Int J Fracture **89**(1) 19-57 (1998), 5A699
Analysis of asymmetric kinked cracks of arbitrary size, location and orientation - Part II: Remote tension, Int J Fracture **89**(1) 59-84 (1998), 5A700
Effect of a layer on a 3D crack within the substrate of a layer-substrate system, Math Mech Solids **3**(4) 433-446 (Dec 1998), 5A701
Stress intensity factor, compliance and CMOD for a general three-point-bend beam, Int J Fracture **89**(2) 103-116 (1998), 5A702
Theory on cracked pipe, Int J Pressure Vessels Piping **75**(12) 865-869 (Oct 1998), 5A703
Investigation into the effect of circumferential through-wall slits on a cantilevered pipe subjected to a transverse end load, Proc Inst Mech Eng E **212**(E3) 163-170 (1998), 5A807
Surface flaws in cylindrical shafts under rotary bending, Fatigue Fracture Eng Mat Struct **21**(9) 1027-1035 (1998), 6A848
BEM based evaluation of SIFs using modified crack closure integral technique under remote and/or

crack edge loading, Eng Fracture Mech **61**(5-6) 655-671 (Nov-Dec 1998), 6A893
Calculation of stress intensities at sharp notches in anisotropic media, Eng Fracture Mech **61**(5-6) 635-654 (Nov-Dec 1998), 6A894
Influence of material properties of SIFs determined by frozen stress, Eng Fracture Mech **61**(5-6) 555-568 (Nov-Dec 1998), 6A895
Notch intensity factor approach to the stress analysis of welds, Fatigue Fracture Eng Mat Struct **21**(9) 1089-1103 (1998), 6A896
Stress intensity factor for sheet-reinforced and cracked plate subjected to remote normal stress, Eng Fracture Mech **61**(3-4) 461-468 (Sep-Nov 1998), 6A897
Stress intensity factors around a cylindrical crack in an interfacial zone in composite materials, Int J Solids Struct **36**(5) 697-709 (Feb 1999), 6A898
Two general equations for deriving SIF expressions of some axisymmetric finite domain problems, Eng Fracture Mech **61**(5-6) 619-634 (Nov-Dec 1998), 6A899
User-friendly system for simplified evaluation of fracture mechanics parameters: System construction and implementation of stress intensity factors formulas, J Soc Mat Sci Japan **47**(11) 1158-1163 (Nov 1998), 6A900
Weld spot force evaluation with dented sheet material, Eng Fracture Mech **61**(5-6) 673-678 (Nov-Dec 1998), 6A1121
Antiplane multiple holes and cracks problem of half-plane region (Chinese), J Shanghai Jiaotong Univ **32**(11) 66-70 (Nov 1998), 7A727
Dynamic stress intensity factors of a penny-shaped crack subjected to an annular impact, Z Angew Math Mech **78**(12) 861-864 (1998), 7T730
Local strain rate at a notch tip: Implications in environmentally assisted fracture, J Mech Behavior Mat **9**(3) 177-203 (1998), 7A731
Multiple crack problems for torsion thin-walled cylinder, Int J Pressure Vessels Piping **76**(1) 49-53 (Jan 1999), 7A732
Stress concentration factors at circumferential welds in tubulars, Marine Struct **11**(6) 207-230 (Jul 1998), 7A733
Stress intensity factors for circumferential cracks in pressure vessel door closures, Int J Pressure Vessels Piping **76**(1) 1-12 (Jan 1999), 7A734
Influence of hydrostatic stress on failure of axisymmetric notched specimens, J Mech Phys Solids **47**(3) 643-667 (Mar 1999), 8A520
Antiplane multiple curved crack problem in circular inclusion and matrix materials, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 37-42 (Dec 1998), 8A767
Asymptotic behavior of stress intensity factors near an angular point of a crack front, Eur J Mech A **18**(1) 135-145 (Jan-Feb 1999), 8A771
Dependence between contour choice and numerical values of stress intensity factors computed from path independent integrals, Eur J Mech A **18**(1) 115-133 (Jan-Feb 1999), 8A772
SIF evaluation and stress analysis of drillstring threaded joints, Int J Pressure Vessels Piping **76**(2) 91-103 (Feb 1999), 8A773
Stress intensity factors for a functionally graded material cylinder with an external circumferential crack, Fatigue Fracture Eng Mat Struct **21**(12) 1447-1457 (1998), 8A774
Two-dimensional stress intensity factor computations using BEM for piezoelectric media (Chinese), J Shanghai Jiaotong Univ **32**(12) 74-76 (Dec 1998), 8A775
Effects of toughened interlaminar layers on fatigue damage progress in quasi-isotropic CFRP laminates, Int J Fatigue **21**(3) 235-242 (Mar 1999), 9A806
Application of a displacement controlled weight function for a single edge cracked plate to thermal fatigue damage assessment, Eng Fracture Mech **62**(2-3) 249-266 (Jan-Feb 1999), 9A855
Calculation of stress intensity factors for elliptical cracks in finite bodies by using the boundary weight function method, J Pressure Vessel Tech **121**(2) 181-187 (May 1999), 9A856
Edge dislocations near a cracked sliding interface, Int J Fracture **91**(2) 131-147 (1998), 9A857
Empirical stress intensity factor set of equations for a semi-elliptical crack in a semi-infinite body subjected to a polynomial stress distribution, Int J Fatigue **21**(3) 243-251 (Mar 1999), 9A858
Mode I stress intensity factors and weight functions for short plates under different boundary conditions, Eng Fracture Mech **62**(6) 593-606 (Apr 1999), 9A859
Modified crack closure integral based computation of stress intensity factors for 2D thermoelastic problems through BEM, Nucl Eng Des **187**(3) 277-290 (Mar 1999), 9A860
Stress intensities at interface corners in anisotropic bimaterials, Eng Fracture Mech **62**(6) 555-575 (Apr 1999), 9A861
Stress intensity factor of an arbitrarily located circumferential crack in a thin-walled cylinder with axisymmetrically loaded ends, Eng Fracture Mech **62**(4-5) 371-382 (Mar 1999), 9A862
Stress intensity factors for an inclined edge crack in a semiplane, Eng Fracture Mech **62**(6) 607-613 (Apr 1999), 9A863
Stress intensity factors for corner cracks emanating from fastener holes under tension, Eng Fracture Mech **62**(6) 535-553 (Apr 1999), 9A864
Study on stress intensity factors and singular stress fields of 3D interface crack, Acta Mech Solida Sinica **12**(1) 43-50 (1999), 9A865
Thermal loading of a thin layer with circular debonding over a substrate, Int J Fracture **91**(3) 217-231 (1998), 9A866
Evaluation of crack closure in intelligent structure member with embedded SMA, JSME Int J Ser C **41**(3) 470-475 (Sep 1998), 9A975
Solution of an elliptical rigid inclusion with debondings in an infinite plane under the uniform heat flux, J Thermal Stresses **22**(2) 189-212 (Mar 1999), 9A1426
Torsion of compound hollow cylinder with an external annular crack, JSME Int J Ser A **41**(4) 510-516 (Oct 1998), 10A510
Singular integral equation method in the analysis of interaction between rectangular inclusions, JSME Int J Ser A **41**(3) 303-308 (Jul 1998), 10A529
Green's function of an external circular crack in a transversely isotropic piezoelectric medium, JSME Int J Ser A **42**(1) 73-79 (Jan 1999), 10A753
Axisymmetrical elastic behavior and stress intensity factor for a nonhomogeneous medium with a penny-shaped crack, JSME Int J Ser A **41**(4) 457-464 (Oct 1998), 10A889
Crack-modeling technique: Optimization of parameters, Fatigue Fracture Eng Mat Struct **22**(1) 41-50 (1999), 10A890
Polynomial evaluation of stress intensity factors of CNS specimen with an interface crack subject to mixed-mode loading, JSME Int J Ser A **42**(1) 57-65 (Jan 1999), 10A891
Stress intensity factors of a crack in a composed circular cylinder, Int J Solids Struct **36**(25) 3779-3797 (Sep 1999), 10A892
Axial crack propagation and crack kinking criteria in pressurized fuselage, JSME Int J Ser A **41**(3) 352-358 (Jul 1998), 10A934
Thermal shock parameters of ceramics evaluated by infrared radiation heating, JSME Int J Ser A **40**(4) 414-422 (Oct 1997), 10A1391
Crack propagation from a preexisting flaw at a notch root (French), Comptes Rendus L'Acad Sci Serie II **327**(6) 581-587 (Jun 1999), 11A778
Application of a displacement controlled weight function for a single edge cracked plate to thermal fatigue damage assessment, Eng Fracture Mech **63**(3) 325-343 (Jun 1999), 11A781
Application of penalty-equilibrium hybrid stress element method to crack problems, Eng Fracture Mech **63**(1) 1-22 (May 1999), 11A782
Decomposed crack closure integrals for estimation of SIF variations, Eng Fracture Mech **63**(2) 165-178 (May 1999), 11A783
Determination of the mode I stress intensity factors for an edge-cracked beam with fixed ends, Eng Fracture Mech **63**(2) 193-208 (May 1999), 11A784
Energy release rate due to propagation of conducting crack in elastic dielectric, Bull Polish Acad Sci Tech Sci **47**(1) 1-14 (1999), 11A785
Evaluation of the stress intensity factors for a 3D interfacial crack by the BEM, J Strain Anal Eng Des **34**(3) 209-215 (May 1999), 11A786
Maximum stress intensity factor for a circumferential crack in a finite-length thin-walled cylinder under transient radial temperature distribution, Eng Fracture Mech **63**(1) 23-38 (May 1999), 11A787
Measuring residual stress and the resulting stress intensity factor in compact tension specimens, Fatigue Fracture Eng Mat Struct **22**(3) 195-204 (Mar 1999), 11A788
Pair of equal collinear interfacial Griffith cracks, Appl Mech Eng **4**(1) 97-112 (1999), 11T789
Stress intensity factor solutions for part-elliptical through cracks, Eng Fracture Mech **63**(2) 209-226 (May 1999), 11A790
Stress intensity factors for a semi-elliptical surface crack in a T-shaped geometry - Part 1: Tension and bending results, J Strain Anal Eng Des **34**(3) 147-155 (May 1999), 11A791
Stress intensity factors for a semi-elliptical surface crack in a T-shaped geometry - Part 2: Approximate solutions at the deepest point for arbitrary crack-face loading, J Strain Anal Eng Des **34**(3) 157-163 (May 1999), 11A792
Stress intensity factors for semi-elliptical surface cracks in round bars under bending and torsion, Int J Fatigue **21**(5) 457-463 (May 1999), 11A793
Stress intensity factors in plane bodies weakened by crack-type defects, J Theor Appl Mech **36**(4) 895-903 (1998), 11A794
Analysis of 3D edge cracks under tensile loading, Acta Mech Solida Sinica **12**(2) 174-187 (Jun 1999), 12A815
Stress intensity factors for edge-cracked plates under arbitrary loading, Fatigue Fracture Eng Mat Struct **22**(4) 301-305 (Apr 1999), 12A816
Three-dimensional dynamic stress intensity factors at three rectangular cracks in an infinite elastic medium subjected to a time-harmonic stress wave, Arch Appl Mech **69**(4) 286-298 (May 1999), 12A817
Interface crack model with contact zones situated in an anisotropic bimaterial, Arch Appl Mech **69**(5) 317-335 (Jun 1999), 12A838

276E. Viscoelastic problems

Damage in a viscoplastic material - Part II: Overall behavior, Int J Plasticity **14**(6) 453-471 (1998), 1A578
Two-dimensional dynamic and 3D fracture in viscoelastic materials, Int J Solids Struct **35**(28-29) 3831-3853 (Oct 1998), 1A876
Viscoelastic fictitious crack model for the fracture of sea ice, Mech Time-Dependent Mat **1**(4) 331-356 (1997), 1A877
Coupled viscoelasticity-damage model with application to swirl-mat composites, Int J Damage Mech **7**(4) 351-380 (Oct 1998), 3A795
Bases of the theory of long-term failure of viscoelastic anisotropic bodies with cracks under the effect varying extremal loads (Russian), Prikl Mekh (Appl Mech) **34**(10) 60-66 (1998), 6A901
Problems of prediction of long-term fracture under creep (Russian), Prikl Mekh (Appl Mech) **34**(10) 32-41 (1998), 6A902
Micro- and macroscopic characterizations of the viscoelastic fracture of resin-based fiber composites, Composites Sci Tech **59**(2) 317-323 (Feb 1999), 8A776
Phenomenological creep theory including nonclassical effects and creep-damage coupling, Appl Mech Eng **4**(S) 11-16 (1999), 11A481

276F. Crack tip plasticity problems

Size of plastic zones and fatigue crack growth behavior of three forms of a Ti-6Al-2.5Mo-1.5Cr alloy, Fatigue Fracture Eng Mat Struct **21**(6) 727-739 (1998), 1A833
Elastic-plastic analysis of crack in adhesive joint by combination of BE and FEMs, Comput Mech **21**(6) 533-539 (Jun 1998), 1A878
Finite element analysis on relationships between the J-integral and CTOD for stationary cracks in welded tensile specimens, Int J Pressure Vessels Piping **75**(3) 197-202 (Mar 1998), 1A879
Structural integrity assessment for a flawed titanium pipe, Int J Pressure Vessels Piping **75**(2) 151-154 (Feb 1998), 1A1025
Boundary element model of plasticity-induced fatigue crack closure, Fatigue Fracture Eng Mat Struct **21**(7) 857-871 (1998), 2A864
Calculation of plastic zone at the end of the crack with in the frameworks of the "Threetooth" model (Russian), Prikl Mekh (Appl Mech) **33**(5) 70-76 (1998), 2A865
J-estimation schemes for internal circumferential and axial surface cracks in pipe elbows, J Pressure Vessel Tech **120**(4) 418-423 (Nov 1998), 2A866
J-R curves from circumferentially through-wall-cracked pipe tests subjected to combined bending and tension - Part I: Theory and numerical simulation, J Pressure Vessel Tech **120**(4) 406-411 (Nov 1998), 2A867
J-R curves from circumferentially through-wall-cracked pipe tests subjected to combined bending and tension - Part II: Experimental and analytical validation, J Pressure Vessel Tech **120**(4) 412-417 (Nov 1998), 2A868
Modified strip-yield model for prediction of plasticity-induced closure in surface flaws, Fatigue Fracture Eng Mat Struct **21**(7) 855-901 (1998), 2A869
Plastic fracture mechanics analysis of small Case B fatigue cracks under multiaxial loading conditions, J Eng Gas Turbines Power **120**(4) 796-800 (Oct 1998), 2A870
FE analysis of the residual stress distribution in the vicinity of a fatigue fractured surface, Eng Fracture Mech **60**(4) 447-455 (Jul 1998), 3A35
Cavitation instabilities in plastics and rubber-modified plastics, Int J Fracture **88**(1) 61-86 (1997), 3A512
Plasticity and ductile fracture of IF steels: Experiments and micromechanical modeling, Int J Plasticity **14**(8) 789-803 (1998), 3A522
Load interaction effects during fatigue crack growth under variable amplitude loading - A literature review - Part I: Empirical trends, Fatigue Fracture Eng Mat Struct **21**(8) 987-1006 (1998), 3A736
CTOD design curve in consideration of material strain hardening, Int J Pressure Vessels Piping **75**(7) 567-573 (Jun 1998), 3A796
Deformation twinning and its effect on crack extension, Acta Mat **46**(15) 5313-5321 (Sep 1998), 3A797
Dislocation behaviors ahead of crack tip, Int J Solids Struct **35**(36) 5033-5050 (Dec 1998), 3A798
Dugdale-Barenblatt model for a plane stress semi-infinite crack under mixed mode concentrated forces, Int J Fracture **88**(2) 153-166 (1997), 3A799
Dynamic stress intensity factors in a 2D punch test, Eng Fracture Mech **60**(4) 421-435 (Jul 1998), 3A800
Estimation of resistance to ductile fracture of weldments at ambient and elevated temperatures from tensile tests, Int J Pressure Vessels Piping **75**(6) 489-498 (May 1998), 3A801
Failure of a porous solid from a deep notch, Int J Fracture **88**(2) 187-203 (1997), 3A802
Finite element analysis and experimental evaluation of ductile-brittle transition in compact tension specimen, Int J Fracture **87**(4) 345-362 (1997), 3A803
Hybrid crack-tip element approach to thermoelastic cracks, Int J Solids Struct **35**(36) 5159-5171 (Dec 1998), 3A804
Method of seamlessly combining a crack tip molecular dynamics enclave with a linear elastic outer domain in simulating elastic-plastic crack advance, Int J Fracture **87**(4) 309-329 (1997), 3A805
Mixed-mode I-II fracture behavior of a high strength steel, Int J Fracture **87**(4) 363-388 (1997), 3A806
Parametric study of mixed-mode I-III ductile fracture in tough materials under small scale yielding, Eng Fracture Mech **60**(4) 407-420 (Jul 1998), 3A807
Plastic fracture mechanics model for characterization of multiaxial low-cycle fatigue, Int J Fatigue **20**(10) 775-784 (Nov 1998), 3A808
Relationship between the CTOD and the J-integral for stationary and growing cracks: Closed-form solutions, Int J Fracture **87**(4) 331-343 (1997), 3A809
Size and geometry effects on ductile rupture of notched bars in a C-Mn steel: Experiments and modeling, Int J Fracture **88**(1) 1-18 (1997), 3A810
Line-spring FE for fully plastic crack growth - I: Formulation and 1D results, Int J Solids Struct **35**(36) 5115-5138 (Dec 1998), 3A844
Line-spring FE for fully plastic crack growth - II: Surface-cracked plates and pipes, Int J Solids Struct **35**(36) 5139-5158 (Dec 1998), 3A845
Effect of mechanical heterogeneity and limit load of a weld joint with longitudinal weld crack on the J-integral and failure assessment curve, Int J Pressure Vessels Piping **75**(8) 625-632 (Jul 1998), 4A806
Effect of triaxial state of stress on ductility using nonlinear CDM model, J Composite Mat **32**(21) 359-371 (1998), 4A807
J-dominance in mixed mode ductile fracture specimens, Int J Fracture **88**(3) 259-279 (1998), 4A808
K_r-L_r failure assessment diagrams as applied to a flaw in the vicinity of a stress concentration: The large L_r regime, Int J Pressure Vessels Piping **75**(8) 613-616 (Jul 1998), 4A809
Lower bound limit load of a circumferentially cracked pipe under combined mechanical loading, Nucl Eng Des **185**(1) 23-31 (Sep 1998), 4A810
Maximal crack tip shielding by microcracking in orthotropic elastic solids (Chinese), J Xi'an Jiaotong Univ **32**(10) 65-69 (1998), 4A811
Mixed mode fracture of cracks and wedge shaped notches in expanded PVC foam, J Composite Mat **32**(21) 343-358 (1998), 4A812
Reinvestigation of elastic-plastic growth of mode III cracks in power law hardening materials, Int J Fracture **88**(4) 335-342 (1998), 4A813
Two-parameter (J-M) description of crack tip stress-fields for an idealized weldment in small scale yielding, Int J Fracture **88**(4) 315-333 (1998), 4A814
Analysis of biaxial loading effect on fracture toughness of reactor pressure vessel steels, Int J Pressure Vessels Piping **75**(8) 589-601 (Jul 1998), 4A1521
Limitations to leading-order asymptotic solutions for elastic-plastic crack growth, J Mech Phys Solids **46**(12) 2361-2386 (Dec 1998), 5A469
Infrared interferometer for elastoplastic crack-tip field investigation of homogeneous and bimaterial beams: A study of 3D effects and J-dominance, J Appl Mech **65**(4) 1032-1041 (Dec 1998), 5A692
Effect of stress triaxiality on the local cleavage fracture stress in a granular bainitic weld metal, Int J Fracture **89**(2) 143-157 (1998), 5A704
Effects of material strength mismatching on constraint at the limit load of welded three-point bend specimens, Int J Fracture **89**(2) 117-142 (1998), 5A705
Elastoplastic fracture properties of an all-aluminium gas cylinder with different cracks, Int J Pressure Vessels Piping **75**(12) 879-886 (Oct 1998), 5A706
Fatigue and fracture emanating from notch: The use of the notch stress intensity factor, Nucl Eng Des **185**(2-3) 173-184 (Oct 1998), 5A707
J-A_2 characterization of crack-tip fields: Extent of J-A_2 dominance and size requirements, Int J Fracture **89**(3) 285-307 (1998), 5A708
Mechanism of ductile fracture in constrained thin silver films, Acta Mat **46**(18) 6445-6457 (Nov 1998), 5A709
Net-section-collapse analysis of circumferentially cracked cylinders - Part I: Arbitrary-shaped cracks and generalized equations, Eng Fracture Mech **61**(2) 191-211 (Sep 1998), 5A710
Net-section-collapse analysis of circumferentially cracked cylinders - Part II: Idealized cracks and

closed-form solutions, Eng Fracture Mech **61**(2) 213-230 (Sep 1998), 5A711
Study on ductile fracture of the over-matched weldment with mechanical heterogeneity, Int J Pressure Vessels Piping **75**(10) 773-776 (Aug 1998), 5A712
Effect of plastic properties of material on stability and fracture of the plate with the edge crack (Russian), Prikl Mekh (Appl Mech) **34**(7) 73-77 (1998), 6A692
Fracture and fatigue of ferroelectrics under electric and mechanical loading, Fatigue Fracture Eng Mat Struct **21**(11) 1361-1369 (1998), 6A855
Centrally cracked thin circular disk - Part I: 3D Elastic-plastic FE analysis, Int J Plasticity **14**(12) 1209-1239 (1998), 6A903
Critical status of crack growth in chevron-notch specimens of elastic-plastic materials, Eng Fracture Mech **61**(3-4) 343-353 (Sep-Nov 1998), 6A904
Development of an inhomogeneous damage field in an elastic-plastic model, Fatigue Fracture Eng Mat Struct **21**(11) 1327-1335 (1998), 6A905
Engineering estimation of the lower bound toughness in the transition regime of ferritic steels, Fatigue Fracture Eng Mat Struct **21**(10) 1273-1278 (1998), 6A906
Estimation of the mixity parameter of a plane strain elastic-plastic crack by using the associated J-integral, Eng Fracture Mech **61**(3-4) 355-368 (Sep-Nov 1998), 6A907
Failure of ligaments due to multiple-site damage using interactions of Dugdale-type cracks, Fatigue Fracture Eng Mat Struct **21**(9) 1147-1156 (1998), 6A908
Growth of an initially sharp crack by grain boundary cavitation, J Mech Phys Solids **47**(1) 99-139 (Jan 1999), 6A909
Method for the assessment of hyperstatic cracked structures in the elastic-plastic regime, Eng Fracture Mech **61**(5-6) 519-535 (Nov-Dec 1998), 6A910
Mode I and mixed mode fields with incomplete crack tip plasticity, Int J Solids Struct **36**(5) 711-725 (Feb 1999), 6A911
Modeling the influence of strain hardening and plastic constraint on crack closure of arbitrarily thick CCT-specimens, Fatigue Fracture Eng Mat Struct **21**(11) 1389-1401 (1998), 6A912
Nucleation, blunting or propagation of a nanocrack in dislocation-free zones of thin crystals, Fatigue Fracture Eng Mat Struct **21**(11) 1415-1423 (1998), 6A913
Plastic damage analysis for the process zone of a fatigue crack, Fatigue Fracture Eng Mat Struct **21**(11) 1403-1414 (1998), 6A914
Quasicontinuum models of fracture and plasticity, Eng Fracture Mech **61**(3-4) 427-444 (Sep-Nov 1998), 6A915
Stress singularity at a crack tip for various intermediate zones in bimaterial structures: Mode III, Int J Solids Struct **36**(7) 999-1015 (Mar 1999), 6A916
Three-dimensional FE simulation of crack extension in aluminium alloy 2024FC, Fatigue Fracture Eng Mat Struct **21**(10) 1159-1173 (1998), 6A917
Two equal symmetric circular arc cracks in an elastic medium: The Dugdale approach, J Eng Math **34**(4) 359-368 (Nov 1998), 6A918
View on ductile-fracture modeling, Fatigue Fracture Eng Mat Struct **21**(9) 1105-1122 (1998), 6A919
Low temperature mixed mode fracture of a pressure vessel steel subject to prior loading, Eng Fracture Mech **61**(3-4) 387-405 (Sep-Nov 1998), 6A1407
Local strain rate at a notch tip: Implications in environmentally assisted fracture, J Mech Behavior Mat **9**(3) 177-203 (1998), 7A731
K_r-L_r failure assessment curve for a multiple tensile loading situation, Int J Pressure Vessels Piping **75**(14) 967-969 (Dec 1998), 7A735
Closed crack tip model for interface cracks in thermopiezoelectric materials, Int J Solids Struct **36**(16) 2463-2479 (Jun 1999), 7A739
Cyclic fatigue crack growth and closure behavior in alumina ceramics, Fatigue Fracture Eng Mat Struct **21**(12) 1575-1587 (1998), 8A732
Hydrogen transport near a blunting crack tip, J Mech Phys Solids **47**(4) 971-992 (Apr 1999), 8A753
Coalescence-controlled anisotropic ductile fracture, J Eng Mat Tech **121**(2) 221-229 (Apr 1999), 8A777
Mechanical reasons for plasticity-induced crack closure under plane strain conditions, Fatigue Fracture Eng Mat Struct **21**(12) 1425-1433 (1998), 8A778
Simplified method for calculating the crack-tip field of functionally graded materials using the domain integral, J Appl Mech **66**(1) 101-108 (Mar 1999), 8A779
Statistical model for fatigue crack growth under random loads including retardation effects, Eng Fracture Mech **62**(4-5) 351-369 (Mar 1999), 9A841
Application of local approach to inhomogeneous welds: Influence of crack position and strength mismatch, Eng Fracture Mech **62**(4-5) 445-462 (Mar 1999), 9A867
Constraint effects on ductile fracture processes near a notch tip under mixed-mode loading, Eng Fracture Mech **62**(6) 511-534 (Apr 1999), 9A868
Distributions of stress and plastic strain in notched tensile bars, Int J Fracture **91**(1) 1-11 (1998), 9A869
Elastic plastic mode III crack under internal shear, Int J Fracture **91**(3) 205-216 (1998), 9A870
Experimental investigation of constraint effects on mixed mode fracture initiation in a ductile aluminium alloy, Acta Mat **47**(5) 1587-1596 (Mar 1999), 9A871
Fracture behaviors of all-steel gas cylinder with different axial cracks, Int J Pressure Vessels Piping **76**(4) 245-250 (Apr 1999), 9A872
Fracture of geometrically scaled, notched three-point-bend bars of high strength steel, Eng Fracture Mech **62**(2-3) 291-310 (Jan-Feb 1999), 9A873
Modeling for ductile-to-brittle transition under ductile crack growth for reactor vessel steels, Int J Pressure Vessels Piping **76**(5) 309-317 (Apr 1999), 9A874
Non-local continuum model and its numerical simulation for localization problem, Acta Mech Solida Sinica **12**(1) 51-62 (1999), 9A875
Plane stress crack tip field around a rapidly growing ductile-rigid interface crack, Int J Fracture **90**(4) 325-340 (1998), 9A876
Study on ductile fracture initiation in the PHT piping material of an Indian PHWR using local approach, Int J Pressure Vessels Piping **76**(5) 319-330 (Apr 1999), 9A877
Three-dimensional analyses of plastic constraint for through-thickness cracked bodies, Eng Fracture Mech **62**(4-5) 383-407 (Mar 1999), 9A878
X-ray diffraction studies on fatigue crack plastic zones developed under plane strain state conditions, Fatigue Fracture Eng Mat Struct **22**(2) 133-144 (1999), 10A847
Allowable sizes of axial flaws in pressurized pipes made of moderate toughness materials, Int J Pressure Vessels Piping **76**(6) 371-377 (May 1999), 10A893
Different fracture performance of all-steel and all-aluminium cylinders with axial cracks, Int J Pressure Vessels Piping **76**(6) 345-353 (May 1999), 10A894
Effect of plasticity on cleavage crack growth resistance at an interface, J Mech Phys Solids **47**(5) 1095-1112 (May 1999), 10A895
Fracture limit prediction using ductile fracture criteria for forming of an automotive aluminum sheet, Int J Mech Sci **41**(10) 1273-1288 (Oct 1999), 10A896
Fracture modeling of WC-Co hardmetals using crystal plasticity theory and the Gurson model, Fatigue Fracture Eng Mat Struct **22**(1) 77-86 (1999), 10A897
Modeling of crack growth initiation in a linear viscoelastic material, J Theor Appl Mech **37**(2) 207-222 (1999), 10A898
Singular behavior near a crack tip in an electrostrictive material, J Mech Phys Solids **47**(5) 1027-1049 (May 1999), 10A899
Plastic deformation and fracture behavior of Ti_3Al single crystals deformed at high temperatures under cyclic loading, Acta Mat **47**(7) 2019-2029 (May 1999), 11A495
Analysis of ductile to cleavage transition in part-through cracks using a cell model incorporating statistics, Fatigue Fracture Eng Mat Struct **22**(3) 239-250 (Mar 1999), 11A795
Application of coupled brittle-ductile model to study correlation between Charpy energy and fracture toughness values, Eng Fracture Mech **63**(1) 57-80 (May 1999), 11A796
Characterization of constraint of fully plastic crack-tip fields in non-hardening materials by the three-term solution, Int J Solids Struct **36**(29) 4497-4517 (Oct 1999), 11A797
Fracture process zone modeling of monolithic Al_2O_3, Eng Fracture Mech **63**(2) 115-129 (May 1999), 11A798
Global-local shakedown analysis method of elastoplastic cracked structures, Eng Fracture Mech **63**(2) 179-192 (May 1999), 11A799
Local crack tip strain behavior during fatigue crack initiation and propagation in polycarbonate, Exp Mech **39**(2) 111-116 (Jun 1999), 11A800
Numerical solutions for ductile fracture behavior of semi-elliptical surface crack, Eng Fracture Mech **63**(2) 131-145 (May 1999), 11A801
Thermoelasticity for the analysis of crack tip stress fields: A review, Strain **35**(2) 49-55 (May 1999), 11A802
Three dimensional elastic-plastic FE modeling of small fatigue crack growth under a single tensile overload, Eng Fracture Mech **63**(3) 229-251 (Jun 1999), 11A803
Crack in a linear-elastic material under mode II loading, revisited, Fatigue Fracture Eng Mat Struct **22**(5) 445-448 (1999), 12A818
Crack tip opening displacement approach to predicting crack extensions in aluminum alloys, J Test Eval **27**(2) 143-149 (Mar 1999), 12A819
Crack-tip plastic constraint activators and the application to plane-strain fracture toughness test: Proposal on small-size fracture toughness specimen, Eng Fracture Mech **63**(4) 447-479 (Jul 1999), 12A820
Family of plane strain crack tip stress fields for interface cracks in strength-mismatched elastic-perfectly plastic solids, J Mech Phys Solids **47**(9) 1963-2010 (Sep 1999), 12A821
J estimation for shallow semi-elliptical surface cracks in wide plates under pure bending, Fatigue Fracture Eng Mat Struct **22**(5) 399-408 (1999), 12A822
Method for determining the elastic-plastic response ahead of a notch tip, J Eng Mat Tech **121**(3) 313-320 (Jul 1999), 12A823
Path-independent J-integral and its dual form in elastic-plastic solids with finite displacements, Appl Math Mech **20**(3) 315-318 (Mar 1999), 12A824
Strip yield analysis on coalescence of plastic zones for multiple cracks in a riveted stiffened sheet, J Eng Mat Tech **121**(3) 352-359 (Jul 1999), 12A825
Three-dimensional modeling of ductile crack growth in thin sheet metals: Computational aspects and validation, Eng Fracture Mech **63**(4) 347-374 (Jul 1999), 12A826
11th European conference on fracture (ECF11) Poitiers, France 1997, Nucl Eng Des **188**(2) 129-254 (Apr 1999), 12T1568

276G. Residual strength

Vibration-induced fatigue failure of an impulse line, Eng Failure Anal **5**(3) 195-204 (Sep 1998), 5A713
Stress intensity factors for a moving interfacial Griffith crack in composite media, Int J Eng Sci **37**(4) 453-475 (Mar 1999), 7A736

276J. Composites

Solving the punch problems by analogy with the interface crack problems, Int J Solids Struct **35**(30) 3945-3960 (Oct 1998), 1A538
Effect of stress concentration on tensile fracture behavior of carbon-carbon composites, J Composite Mat **32**(13) 1273-1294 (1998), 1A612
Response of fiber-reinforced polymers to high strain-rate loading in interlaminar tension and combined tension-shear, Composites Sci Tech **58**(6) 987-996 (Jun 1998), 1A627
Contact behavior of an orthotropic laminated beam indented by a rigid cylinder, Composites Sci Tech **58**(3-4) 505-513 (Mar-Apr 1998), 1A692
Stability and tensile failure of bilayered plates with cracks, Prikl Mekh (Appl Mech) **34**(3) 91-96 (1998), 1A716
Analytical derivation and investigation of the interface crack models, Int J Solids Struct **35**(33) 4477-4489 (Nov 1998), 1A867
10th French National Colloquium on Composite Materials, Composites Sci Tech **58**(5) 627-799 (May 1998), 1T880
Damage characterization of carbon-carbon laminates using neural network techniques on AE signals, NDT&E Int **31**(5) 329-340 (Oct 1998), 1A881
Damage modeling of laminated composites by the use of multilayer volume elements, Composites Sci Tech **58**(6) 891-905 (Jun 1998), 1A882
Debonding and cracking energy release rate of the fiber-matrix interface, Composites Sci Tech **58**(3-4) 331-335 (Mar-Apr 1998), 1A883
Effects of moisture and temperature on the interlaminar delamination toughness of a carbon-epoxy composite, Composites Sci Tech **58**(6) 967-977 (Jun 1998), 1A884
Effects of stitching in CFRPs - I: Mode I delamination toughness, Composites Sci Tech **58**(6) 815-827 (Jun 1998), 1A885
Effects of stitching in CFRPs - II: Mode II delamination toughness, Composites Sci Tech **58**(6) 829-837 (Jun 1998), 1A886
Failure phenomena in 2D multi-fiber microcomposites - 3: A Raman spectroscopy study of the influence of interfacial debonding on stress concentrations, Composites Sci Tech **58**(6) 933-944 (Jun 1998), 1A887
Fracture model and estimation of probability distribution of fracture toughness for polycrystalline ceramics (Japanese), J Soc Mat Sci Japan **47**(6) 625-630 (Jun 1998), 1A888
Inadequacy in a common micromechanics approach to analysis of damage evolution in composites, Int J Damage Mech **7**(3) 238-249 (Jul 1998), 1A889
Influence of reinforcement architecture on damage mechanisms and residual strength of glass-fiber and epoxy composite systems, Composites Sci Tech **58**(6) 803-813 (Jun 1998), 1A890
Interface crack in bi-piezothermoelastic media and the interaction with a point heat source, Int J Solids Struct **35**(30) 3899-3915 (Oct 1998), 1A891
Long-term thermo-oxidative aging in composite materials: Failure mechanisms, Composites Sci Tech **58**(3-4) 355-368 (Mar-Apr 1998), 1A892
Multi-scale analysis to determine fiber-matrix debonding criteria in SiC-Titanium composites with and without consideration of the manufacturing residual stresses, Composites Sci Tech **58**(6) 945-955 (Jun 1998), 1A893
Progressive delamination using interface elements, J Composite Mat **32**(14) 1246-1272 (1998), 1A894
Rate dependence of mode I fracture behavior in carbon-fiber and epoxy composite laminates, Composites Sci Tech **58**(3-4) 591-602 (Mar-Apr 1998), 1A895
Stress intensity factors for interlaminar cracked composites under arbitrary normal crack surface loading, Int J Solids Struct **35**(33) 4355-4367 (Nov 1998), 1A896
Study of Mode-I delamination cracks by high-magnification moire interferometry, Composites Sci Tech **58**(3-4) 515-525 (Mar-Apr 1998), 1A897
Surface damage modeling of oxidized metal matrix composite laminates under axial and transverse tension, Int J Damage Mech **7**(3) 209-237 (Jul 1998), 1A898
Tensile damage in a symmetric $[0/90]_2$, silicon-carbide fiber-reinforced titanium-matrix composite, Composites Sci Tech **58**(6) 915-931 (Jun 1998), 1A899
Estimation of impact-induced damage in CFRP laminates through ultrasonic imaging, NDT&E Int **31**(5) 359-374 (Oct 1998), 1A930
Stress rupture of unidirectional high performance thermoplastic composites in end-loaded bending at elevated temperatures - Part I: Experimental characterization of the failure mode, J Composite Mat **32**(14) 1311-1321 (1998), 1A1375
Progress in Durability Analysis of Composite Systems (Balkema, Rotterdam, Netherlands, 1998) 2N16
Fatigue damage characterization in carbon fiber composite materials using an electrical potential technique, Smart Mat Struct **7**(4) 456-466 (Aug 1998), 2A656
Time-dependent crack initiation and growth in ceramic matrix composites, J Eng Gas Turbines Power **120**(4) 808-812 (Oct 1998), 2A822
Detecting impact damage in a composite material with an optical fiber vibration sensor system, Smart Mat Struct **7**(4) 543-549 (Aug 1998), 2A858
Advances in failure mechanisms in brittle materials, Mech Mat **29**(3-4) 143-340 (Aug 1998), 2A863
Constitutive relation and stiffness degradation of cracked anisotropic composites laminates - II: Determination of resolved stiffness and investigation of stiffness degradation for cracked laminates, Appl Math Mech **19**(6) 555-561 (Jun 1998), 2A871
Damage in composite NiMH positive electrodes, J Eng Mat Tech **120**(4) 280-283 (Oct 1998), 2A872
Damage in laminated composites due to low velocity impact, J Reinforced Plastics Composites **17**(14) 1232-1263 (1998), 2A873
Ductile-brittle size transition of iron aluminide ligaments in an FeAl-TiC composite, Acta Mat **46**(13) 4733-4741 (Aug 1998), 2A874
Fracture load predictions for adhesive joints under mixed mode I-II-III loading, J Composite Tech Res **20**(3) 187-197 (Jul 1998), 2A875
Fracture toughness of hydroxyapatite-mica composite, packed hydroxyapatite, alumina ceramics, silicon nitride and -carbide, Bio-Med Mat Eng **8**(1) 37-43 (1998), 2A876
Influence of the volume fraction of fiber-reinforced orthotropic composite on the mode-I stress intensity factor, J Strain Anal Eng Des **33**(3) 233-241 (May 1998), 2A877
Interlaminar Mode I fracture of IM7-LaRC-RP46 composites at high temperatures, J Composite Mat **32**(16) 1508-1526 (1998), 2A878
Metal matrix composite damage and life prediction model, J Eng Gas Turbines Power **120**(4) 825-832 (Oct 1998), 2A879
Nonlinear analyses of homogeneous, symmetrically delaminated single leg bending specimens, J Composite Tech Res **20**(3) 170-178 (Jul 1998), 2A880
Plate wave characterization of stiffness degradation in composites during fatigue, Res Nondestructive Eval **10**(3) 147-162 (1998), 2A881
Viscoelasticity and aging of dental composites, Bio-Med Mat Eng **8**(1) 45-53 (1998), 2A882
Work-of-fracture of SiC-whisker reinforced Al_2O_3 composite at elevated temperatures, Sci Eng Comp Mat **7**(3) 231-238 (1998), 2A883
Mechanical properties and failure behavior of cylindrical CFRP-implant-rods under torsion load, Composites Part A Appl Sci and Manuf **29A**(11) 1453-1461 (1998), 3A556
Delamination resistance of post-stretched fiber metal laminates, J Composite Mat **32**(19) 1784-1805 (1998), 3A561
Fifth International Conference on Interfacial Phenomena in Composite Materials, Composites Part A Appl Sci and Manuf **29A**(9-10) 1007-1330 (1998), 3A564
Multi-fracture response of cross-ply ceramic composites, Int J Solids Struct **35**(36) 5051-5083 (Dec 1998), 3A576
Experimental evaluation of repair efficiency of composite patching by ESPI, J Composite Mat **32**(17) 1595-1616 (1998), 3A588
Postbuckling and failure of stiffened composite panels under axial compression, Composite Struct **42**(1) 13-21 (May 1998), 3A636
Fatigue damage characterization in plain-weave carbon-carbon fabric reinforced plastic composites, J Reinforced Plastics Composites **17**(15) 1320-1337 (1998), 3A748
Study on the characteristic stress-life curve of different materials and failure modes, J Reinforced Plastics Composites **17**(16) 1450-1461 (1998), 3A755

Study on the compressive strength of laminated composite with through-the-width delamination, Composite Struct **41**(3-4) 229-241 (Mar-Apr 1998), 3A770

Stress intensity factor for bimaterial medium with a 3D interface crack (Chinese), J Xi'an Jiaotong Univ **32**(9) 81-83 (1998), 3A794

Analysis of the fiber-matrix cylindrical model with a circumferential crack, Int J Fracture **88**(1) 87-105 (1997), 3A811

Behavior of the residual strain produced by matrix cracking in cross-ply laminates, Composites Part A Appl Sci and Manuf **29A**(11) 1425-1432 (1998), 3A812

Debonding mechanisms in the presence of an interphase in composites, Acta Mat **46**(15) 5237-5247 (Sep 1998), 3A813

Effects of hail damage on the fatigue strength of a graphite-epoxy composite laminate, Composite Struct **42**(2) 101-106 (Jun 1998), 3A814

Failure criteria in fiber-reinforced-polymer composites, Composites Sci Tech **58**(7) 1001-1254 (Jul 1998), 3A815

Failure of ± 55° filament wound glass-epoxy composite tubes under biaxial compression, J Composite Mat **32**(18) 1618-1645 (1998), 3A816

Interlaminar fracture toughness of GFRP influenced by fiber surface treatment, J Composite Mat **32**(17) 1528-1559 (1998), 3A817

Large-scale bridging in composites: R-curves and bridging laws, Composites Part A Appl Sci and Manuf **29A**(11) 1443-1451 (1998), 3A818

Micromechanics of fiber fragmentation in model epoxy composites reinforced with α-alumina fibers, Composites Part A Appl Sci and Manuf **29A**(11) 1353-1362 (1998), 3A819

Nonlinear analysis of bonded composite patch repair of cracked aluminum panels, Composite Struct **41**(3-4) 303-313 (Mar-Apr 1998), 3A820

Progressive failure of symmetric laminates under in-plane shear - II: Negative shear, Struct Eng and Mech **6**(7) 757-772 (Oct 1998), 3A821

Progressive fracture of fiber composite thin shell structures under internal pressure and axial loads, Int J Damage Mech **7**(4) 332-350 (Oct 1998), 3A822

Residual strain and Young's modulus determination in cross-ply composites using an embedded aramid fiber strain sensor, Composites Part A Appl Sci and Manuf **29A**(11) 1363-1369 (1998), 3A823

Transverse matrix cracks in cross-ply laminates: Stress transfer, stiffness reduction, and crack opening profiles, Acta Mech **130**(3-4) 227-248 (1998), 3A824

Two-term parameter technique to calculate energy release rate of composite lamiantes, Composite Struct **42**(2) 169-174 (Jun 1998), 3A825

High cycle fatigue damage evolution in unidirectional metal matrix composites using a micromechanical approach, Mech Mat **30**(2) 91-110 (Oct 1998), 3A850

Permeability modeling of fibrous media in composite processing, J Non-Newtonian Fluid Mech **79**(2-3) 585-598 (Nov 1998), 4A29

Micromechanical characterization of local deformation in interlaminar-toughened CFRP laminates, Composites Part A Appl Sci and Manuf **29A**(12) 1545-1552 (1998), 4A592

Effect of fiber-matrix adhesion on residual strength of notched composite laminates, Composites Part A Appl Sci and Manuf **29A**(12) 1525-1533 (1998), 4A596

Effects of water and seawater on the mechanical properties of carbon fiber reinforced epoxy composite under pre-cure curing condition, Adv Composites Letters **7**(4) 117-120 (1998), 4A597

Tensile strength of fiber-reinforced composites - I: Model and effects of local fiber geometry, J Composite Mat **32**(22) 2042-2059 (1998), 4A603

Tensile strength of fiber-reinforced composites - II: Application to polymer matrix composites, J Composite Mat **32**(22) 2060-2081 (1998), 4A604

Standard test methods for delamination resistance of composite materials: Current status, Appl Composite Mat **5**(6) 345-364 (Nov 1998), 4A624

Net-shape machining and the process-dependent failure of fiber-reinforced plastics under static load, J Composite Tech Res **20**(4) 210-220 (Oct 1998), 4A742

Critical fiber length and apparent interfacial shear strength of single flax fiber polypropylene composites, Adv Composites Letters **7**(3) 81-85 (1998), 4A815

Damage mechanisms for angled through-thickness rod reinforcement in carbon-epoxy laminates, Composites Part A Appl Sci and Manuf **29A**(12) 1603-1613 (1998), 4A816

Effect of fiber fracture and matrix yielding on load sharing in continuous fiber metal matrix composites, J Composite Tech Res **20**(4) 203-209 (Oct 1998), 4A817

Effect of temperature on the strength and failure mechanisms of a woven carbon-polyimide laminate under compression, Mech Mat **30**(3) 165-180 (Nov 1998), 4A818

Enhanced mode-II fracture toughness of an epoxy resin due to shear banding, Acta Mat **46**(16) 5647-5661 (Oct 1998), 4A819

Influence of ply orientation on delamination in composite laminates, J Composite Mat **32**(21) 1933-1947 (1998), 4A820

Interaction between a crack and a particle cluster, Int J Fracture **88**(3) 215-232 (1998), 4A821

Interface corner failure analysis of joint strength: Effect of adherend stiffness, Int J Fracture **88**(4) 305-314 (1998), 4A822

Interfacial fracture in fiber-metal laminates based on glass fiber reinforced polypropylene, Adv Composites Letters **7**(4) 97-103 (1998), 4A823

Interlaminar fracture of commingled GF-PET composite laminates, J Composite Mat **32**(20) 1808-1835 (1998), 4A824

Intralaminar failure stresses due to centrifugal forces in polar-anisotropic circular plates, J Composite Mat **32**(21) 1948-1963 (1998), 4A825

Non-axisymmetric matrix cracking and interface debonding with friction in ceramic composites, Appl Composite Mat **5**(6) 379-397 (Nov 1998), 4A826

Predicting fracture from the tensile properties of a composite biomaterial, Composites Part A Appl Sci and Manuf **29A**(12) 1475-1480 (1998), 4A827

Stiffness reduction and stress analysis in cracked [0m°/90n°], laminates, Acta Mech **131**(3-4) 177-201 (1998), 4A828

Stress intensity factors for internal circumferential cracks in thin- and thick-walled cylinders, Eng Fracture Mech **60**(5-6) 491-500 (Jul 1998), 4A829

Tension-torsion behavior of glass epoxy flexbeam laminates, J Composite Tech Res **20**(4) 221-226 (Oct 1998), 4A830

Compressive performance of carbon fibers: Experiment and analysis, Composites Sci Tech **58**(10) 1649-1658 (Oct 1998), 5A497

Study of the interlaminar fracture toughness of a carbon-fiber and epoxy composite containing surface-modified short Kevlar fibers, Composites Sci Tech **58**(10) 1599-1606 (Oct 1998), 5A499

Effects of hybridization on the mechanical performance of aramid-polyethylene intraply fabric composites, Composites Sci Tech **58**(10) 1621-1628 (Oct 1998), 5A502

Experimental assessment of fatigue life and failure modes in a SiC-Ti composites, Composites Sci Tech **58**(10) 1583-1591 (Oct 1998), 5A503

Single fiber pull-out test analysis: Influence of a compliant coating on the stresses at bonded interfaces, J Adhesion Sci Tech **12**(12) 1391-1412 (1998), 5A509

Transverse tensile behavior of SiC-fiber and Ti-6Al-4V composites - 1: Experimental results, Composites Sci Tech **58**(10) 1571-1581 (Oct 1998), 5A512

Micromechanics of fiber-reinforced composites, Composites Sci Tech **58**(11) 1709-1859 (Nov 1998), 5T516

Numerical simulation of microstructure and strength prediction for short-fiber-reinforced metal-matrix composites, Composites Sci Tech **58**(10) 1685-1695 (Oct 1998), 5A518

Diagonal tension and failure study of stiffened stitched composite panels, J Reinforced Plastics Composites **17**(18) 1636-1650 (1998), 5A524

Fatigue crack initiation and multiplication of unnotched titanium matrix composites, Acta Mat **46**(18) 6645-6659 (Nov 1998), 5A648

Stress field ahead of mode I delamination crack tip in double cantilever beam specimen of unidirectional fiber reinforced composite (Japanese), J Soc Mat Sci Japan **47**(9) 926-930 (Sep 1998), 5A683

Analysis of a stitched double cantilever beam, J Composite Mat **32**(24) 2203-2225 (1998), 5A714

Anisotropic constraint effects on interactive damage progression of general lay-up composites, J Appl Mech **65**(4) 970-979 (Dec 1998), 5A715

Composite laminates with elliptical pin-loaded holes, Eng Fracture Mech **61**(2) 279-295 (Sep 1998), 5A716

Damage and failure mechanisms of a 3-directional carbon-carbon composite under uniaxial tensile and shear loads, Acta Mat **46**(18) 6631-6643 (Nov 1998), 5A717

Experimental investigation of the shear strength of a unidirectional carbon-aluminum composite under dynamic torsional loading, Composites Sci Tech **58**(10) 1667-1673 (Oct 1998), 5A718

Extent of laser-induced thermal damage of UD and crossply composite laminates, Int J Machine Tools Manuf **39**(4) 639-650 (Apr 1999), 5A719

Image analysis technique for evaluating internal damage in graphite-fabric and polyimide composites, Composites Sci Tech **58**(10) 1607-1619 (Oct 1998), 5A720

Interface crack in anisotropic bodies: Stress singularities and invariant integrals, J Appl Math Mech **62**(3) 453-464 (1998), 5A721

Intersonic crack growth in bimaterial interfaces: An investigation of crack face contact, J Mech Phys Solids **46**(11) 2233-2259 (Nov 1998), 5A722

Model for moisture absorption in cross-ply composite laminates with matrix cracks, J Composite Mat **32**(24) 2226-2253 (1998), 5A723

Modeling of R-curve behavior in ceramic-metal composites, Acta Mat **46**(18) 6381-6395 (Nov 1998), 5A724

Stress singularity analysis of a crack terminating at the interface of an anisotropic layered composite, J Appl Mech **65**(4) 829-836 (Dec 1998), 5A725

Proceedings of a Symposium on the dynamic deformation and failure mechanics of materials, honoring Professor RJ Clifton, held May 1997 at the California Institute of Tecnology, J Mech Phys Solids **46**(10) 1699-2181 (Oct 1998), 5T734

Simulation of crack spacing using a reinforced concrete model with an internal length parameter, Arch Appl Mech **68**(9) 613-625 (Nov 1998), 5A791

Functionally graded particulate composite: Preparation, measurements and failure analysis, Acta Mat **47**(1) 259-268 (Dec 1998), 6A587

Advances in Polymer Matrix Composites: Microscopic to macroscopic, Composites Part A Appl Sci and Manuf **30A**(2) 113-177 (1999), 6A593

Fatigue behavior and damage development of 3D woven sandwich composites, Composite Struct **43**(1) 35-45 (Sep 1998), 6A619

Rate and architecture effects on progressive crush of braided tubes, Composite Struct **43**(2) 93-108 (Oct 1998), 6A627

Delaminations induced by constrained transverse cracking in symmetric composite laminates, Int J Solids Struct **36**(6) 813-846 (Feb 1999), 6A881

Effects of interface layer and thermal stresses on matrix cracking in fiber reinforced ceramics (Chinese), J Tsinghua Univ Sci Tech **38**(12) 83-87 (Dec 1998), 6A882

Probabilistic failure prediction for FRP composites, Composites Sci Tech **58**(12) 1973-1982 (Dec 1998), 6A885

Stress intensity factors around a cylindrical crack in an interfacial zone in composite materials, Int J Solids Struct **36**(5) 697-709 (Feb 1999), 6A898

Beam analysis of angle-ply laminate end-notched flexure specimens, Composites Sci Tech **58**(12) 1929-1938 (Dec 1998), 6A920

Damage identification of chordwise crack size and location in uncoupled composite rotorcraft flexbeams, J Intelligent Mat Syst Struct **9**(2) 146-155 (Feb 1998), 6A921

Damage zone model for the failure analysis of adhesively bonded joints, Int J Adhesion Adhesives **18**(6) 385-400 (Dec 1998), 6A922

Delamination fracture of multidirectional carbon-fiber and epoxy-composites under Mode I, Mode II and Mixed-Mode I-II loading, J Composite Mat **33**(1) 73-100 (1998), 6A923

Durability assessment of composite repairs bonded to aircraft structures, J Adhesion Sci Tech **13**(1) 127-148 (1999), 6A924

Effects of non-uniform particle distributions on damage evolution in pre-cracked, particulate composite specimens, Polymers and Polymer Composites **6**(6) 387-397 (1998), 6A925

Estimation of the fibers effect on the yield point of fibrous composite under shearing strain (Russian), Prikl Mekh (Appl Mech) **34**(9) 83-89 (1998), 6A926

Evaluation of interface fracture energy for single-fiber composites, Composites Sci Tech **58**(12) 1907-1916 (Dec 1998), 6A927

Failure analysis of polymer composite stiffened laminates using the FEM, J Reinforced Plastics Composites **18**(1) 2-14 (1999), 6A928

Failure of automobile seat belts caused by polymer degradation, Eng Failure Anal **6**(1) 13-25 (Feb 1999), 6A929

Influence of fiber surface properties on the mode of failure in carbon-fiber and epoxy composites, Composites Sci Tech **58**(12) 1917-1922 (Dec 1998), 6A930

Influence of particle size and volume fraction on damage and fracture in Al-Al$_3$Ti composites and micromechanical modeling using the GTN model, Fatigue Fracture Eng Mat Struct **21**(10) 1189-1201 (1998), 6A931

Influence of the local structural damage of the multilayered thick plate material to the stress distribution (Russian), Prikl Mekh (Appl Mech) **34**(9) 64-68 (1998), 6T932

Integrity of bonded joints in large composite pipes, Int J Adhesion Adhesives **18**(6) 421-429 (Dec 1998), 6A933

Investigation of mixed mode I-II interlaminar fracture toughness of laminated composites by using a CTS type specimen, Eng Fracture Mech **61**(3-4) 325-342 (Sep-Nov 1998), 6A934

Macrofragmentation and microfragmentation phenomena in composite materials, Composites Part A Appl Sci and Manuf **30A**(1) 59-66 (1999), 6A935

Mechanical properties and fracture behavior of layered 6061-SiC$_p$ composites produced by spray atomization and co-deposition, Acta Mat **47**(1) 43-53 (Dec 1998), 6A936

Reduction of fiber pull-out stress due to hot water immersion: Carbon-PEEK, J Thermoplastic Composite Mat **12**(1) 33-45 (Jan 1999), 6A937

Reduction of tensile strength in angle-ply composite laminates due to low-velocity impact, J Reinforced Plastics Composites **18**(1) 63-85 (1999), 6A938

Stress rupture of unidirectional high performance thermoplastic composites in end-loaded bending at elevated temperatures - Part II: Analytical modeling, J Composite Mat **33**(1) 22-36 (1998), 6A939

Tensile fracture of graphite-epoxy laminates containing central holes and cracks, Adv Composites Letters **7**(5) 143-147 (1998), 6A940

Variation of G_{Ic} and δ_{Ic} with crack growth rate in polyethylene, J Reinforced Plastics Composites **18**(1) 86-93 (1999), 6A941

Acoustic-emission characterization of the failure modes in polymer-composite materials, Composites Sci Tech **58**(12) 1923-1928 (Dec 1998), 6A993

Experimental and numerical failure analysis of bolted joints in CFRP woven laminates, Aeronaut J **102**(1018) 445-450 (Oct-Dec 1998), 6A1112

Post-adhesive yield carrying capacity of single lap joints with voids, J Adhesion Sci Tech **13**(1) 49-63 (1999), 6A1119

Cyclic torsion of a polymeric tube: Self-heating and thermal failure, J Thermal Stresses **21**(9) 851-879 (Dec 1998), 6A1396

Recent Advances in Solids and Structures - 1998 (ASME, New York, 1998) 7N22

Interface dislocations between dissimilar materials with nonlinear stress-strain laws: Mode 3 analysis, J Mech Phys Solids **47**(2) 351-369 (Feb 1999), 7A467

Modeling of adaptive composites including debonding, Int J Solids Struct **36**(12) 1823-1843 (Apr 1999), 7A522

Structure and bending properties of squeeze-cast composites of A356 aluminium alloy reinforced with alumina particles, Composites Sci Tech **59**(1) 157-162 (Jan 1999), 7A525

Modeling of the stress-strain behavior of a carbon-carbon composite with a 2.5D fiber architecture under tensile and shear loads at room temperature, Composites Sci Tech **59**(1) 1-12 (Jan 1999), 7A527

Shear-lag simulation of the progress of interfacial debonding in unidirectional composites, Composites Sci Tech **59**(1) 77-88 (Jan 1999), 7A533

Assessment of damage induced by thermal shock in SiC-fiber-reinforced borosilicate glass composites, Composites Sci Tech **59**(1) 105-112 (Jan 1999), 7A737

Axial compressive failure of titanium reinforced with silicon carbide monofilaments, Acta Mat **47**(2) 671-687 (Jan 1999), 7A738

Closed crack tip model for interface cracks in thermopiezoelectric materials, Int J Solids Struct **36**(16) 2463-2479 (Jun 1999), 7A739

Continuum damage mechanics model for fiber reinforced composites, Int J Damage Mech **8**(1) 2-17 (Jan 1999), 7A740

Damage accumulation in woven-fabric CFRP laminates under tensile loading - Part 1: Observations of damage accumulation, Composites Sci Tech **59**(1) 123-136 (Jan 1999), 7A741

Damage accumulation in woven-fabric CFRP laminates under tensile loading - 2: Modeling the effect of damage on macromechanical properties, Composites Sci Tech **59**(1) 137-145 (Jan 1999), 7A742

Elastic limit stress and creep of 2D SiC$_f$/MLAS, Composites Sci Tech **59**(1) 19-27 (Jan 1999), 7A743

Examination of the effects from surface texture on the strength of fiber reinforced plastics, J Composite Mat **33**(2) 102-123 (1999), 7A744

Experimental and theoretical predictions of first-ply failure strength of laminated composite plates, Int J Solids Struct **36**(16) 2379-2395 (Jun 1999), 7A745

Experimental investigation of a strain-softening approach to predicting failure in notched fiber-reinforced composite lamiantes, Composites Sci Tech **59**(1) 29-49 (Jan 1999), 7A746

Failure prediction for laminated composites under multiaxial loading, J Reinforced Plastics Composites **18**(2) 138-150 (1999), 7A747

Fracture of metal-ceramic laminates - I: Transition from single to multiple cracking, Acta Mat **47**(2) 529-543 (Jan 1999), 7A748

Fracture of metal-ceramic laminates - II: Crack growth resistance and toughness, Acta Mat **47**(2) 545-563 (Jan 1999), 7A749

Global and local approaches to fracture normal to interfaces, Int J Solids Struct **36**(12) 1845-1864 (Apr 1999), 7A750

Fracture analysis of delamination failure in angle-ply elastomer composites, Polymers and Polymer Composites **6**(7) 439-445 (1998), 7A767

Particulate refinement and redistribution during the axisymmetric compression of an Al-SiC$_p$ metal matrix composite, Composites Part A Appl Sci and Manuf **30A**(3) 203-211 (1999), 8A572

Experimental study of scale effects in marine composites, Composites Part A Appl Sci and Manuf **30A**(3) 267-275 (1999), 8A584

Longitudinal yielding behavior of SiC-fiber-reinforced titanium-matrix composites, Composites Sci Tech **59**(2) 297-303 (Feb 1999), 8A587

Shear-lag model for a broken fiber embedded in a composite with a ductile matrix, Composites Sci Tech **59**(3) 447-457 (Feb-Mar 1999), 8A590

Micromechanisms in tension-compression fatigue of composite laminates containing transverse plies,

Composites Sci Tech **59**(2) 167-178 (Feb 1999), 8A599
Experimentation and modeling of composite materials, Exp Mech **39**(1) 1-19 (Mar 1999), 8T617
Crack propagation in a brittle elastic material with defects, J Appl Mech **66**(1) 79-86 (Mar 1999), 8A735
Corrosion fatigue fracture behavior of a SiC whisker-aluminium matrix composite under combined tension-torsion loading, Fatigue Fracture Eng Mat Struct **21**(12) 1435-1446 (1998), 8A749
Low velocity impact and delamination buckling behavior of composite laminates with embedded optical fibers, Smart Mat Struct **8**(1) 41-48 (Feb 1999), 8A759
Validation and internal length scale determination for a gradient damage model: Application to short glass-fiber reinforced polypropylene, Int J Solids Struct **36**(17) 2557-2583 (Jun 1999), 8A765
Geometrical and interfacial nonlinearities in the analysis of delamination in composites, Int J Solids Struct **36**(15) 2189-2216 (May 1999), 8A769
Assessment of evaluation methods for the mixed-mode bending test, J Composite Tech Res **21**(1) 37-48 (Jan 1999), 8A780
Beam analysis of angle-ply laminate DCB specimens, Composites Sci Tech **59**(2) 305-315 (Feb 1999), 8A781
Composite repairs to cracks in thick metallic components, Composite Struct **44**(1) 17-29 (Jan 1999), 8A782
Effects of environment on the high-temperature strength of $ZrSiO_4$-matrix and SiC-fiber composites, Composites Sci Tech **59**(2) 253-262 (Feb 1999), 8A783
Effects of interphase strength on the damage modes and mechanical behavior of metal-matrix composites, Composites Part A Appl Sci and Manuf **30A**(3) 257-266 (1999), 8A784
Influence of loading rate on the interlaminar fracture properties of high performance composites: A review, Appl Mech Rev **52**(6) 199-212 (Jun 1999), 8A785
Initiation and growth of delamination in glass-epoxy composites subjected to static and dynamic loading by acoustic emission monitoring, Composites Sci Tech **59**(2) 201-208 (Feb 1999), 8A786
Load transfer from broken fibers in continuous fiber Al_2O_3-Al composites and dependence on local volume fraction, J Mech Phys Solids **47**(3) 465-502 (Mar 1999), 8A787
Microstructural engineering of ceramic-matrix layered composites: Effect of grain-size dispersion on single-phase ceramic strength, Composites Sci Tech **59**(2) 283-289 (Feb 1999), 8A788
Modeling failure in notched plates with micropolar strain softening, Composite Struct **44**(1) 71-79 (Jan 1999), 8A789
Optical microscopy of a 3D woven SiC-SiC-based composite, Composites Sci Tech **59**(3) 429-437 (Feb-Mar 1999), 8A790
Process zone of polycrystalline alumina, Exp Mech **39**(1) 20-24 (Mar 1999), 8A791
Role of interface modification on the Mode I and Mode II fracture behavior of glass fabric-vinyl ester composites, Mat Manuf Processes **14**(1) 97-106 (1999), 8T792
Scanning acoustic microscopy as a tool for quantitative characterization of damage in CFRPs, Composites Sci Tech **59**(3) 345-354 (Feb-Mar 1999), 8A793
Stress transfer from the matrix to the fiber in a fragmentation test: Raman experiments and analytical modeling, J Composite Mat **33**(4) 377-399 (1999), 8A794
Studies in the matrix dominated failures of composite joints, Composite Struct **44**(1) 1-16 (Jan 1999), 8A795
Study of the numerical fracture mechanics analysis of composite T-joints, J Reinforced Plastics Composites **18**(3) 215-223 (1999), 8A796
Study on interfacial aspects of epoxy-based composites reinforced with dual basalt and SiC fibers by means of the fragmentation and acoustic emission techniques, Composites Sci Tech **59**(3) 355-370 (Feb-Mar 1999), 8A797
Subcritical crack growth in a composite solid propellant, J Reinforced Plastics Composites **18**(3) 233-250 (1999), 8A798
Toughness characterization of damageable ceramic matrix composites, Composites Part A Appl Sci and Manuf **30A**(3) 191-201 (1999), 8A799
Dynamics of delaminated smart composites cross-ply beams, Smart Mat Struct **8**(1) 92-99 (Feb 1999), 8A848
Influence of bondline brittleness and defects on the strength of timber finger-joints, Int J Adhesion Adhesives **19**(1) 9-17 (Feb 1999), 8A953
Experimental analysis of vibration characteristics of an edge-cracked composite plate by ESPI method, Int J Fracture **91**(4) 311-321 (1998), 9A177
Impact damage analysis of composite plates, Int J Impact Eng **22**(4) 435-447 (Apr 1999), 9A243
Post-impact crush of hybrid braided composite tubes, Int J Impact Eng **22**(4) 419-433 (Apr 1999), 9A245
Stress relaxation in broken fibers in unidirectional composites - Modeling and application to creep rupture analysis, Int J Plasticity **15**(2) 167-189 (1999), 9A591
International Symposium on ceramic matrix composites: A special session of SAMPE, JISSE-5, October 28-30, 1997, Tokyo, Japan, Composites Part A Appl Sci and Manuf **30A**(4) 399-597 (1999), 9A644
Micromechanics model for 3D elasticity and failure of woven-fiber composite materials, Composites Sci Tech **59**(4) 505-517 (Mar 1999), 9A652
Evaluation of fatigue strength of adhesively bonded single and single step double lap joints based on stress singularity parameters, Eng Fracture Mech **62**(4-5) 409-424 (Mar 1999), 9A807
Crack opening displacement and the associated response of laminates with varying constraints, Int J Damage Mech **8**(2) 174-193 (Apr 1999), 9A879
Damage modeling of a transversely loaded titanium matrix composite under cyclic conditions, J Composite Tech Res **21**(2) 75-83 (Apr 1999), 9A880
Delamination fracture toughness of woven-fabric composites under mixed-mode loading, AIAA J **37**(4) 517-520 (Apr 1999), 9T881
Designation of mode mix in orthotropic composite delamination problems, Int J Fracture **90**(4) 383-400 (1998), 9A882
Finite element analysis of fracture initiation in ductile-brittle periodically layered composites, Int J Fracture **90**(4) 299-323 (1998), 9A883
Fracture behavior of glass fiber-recycled PET composites, J Reinforced Plastics Composites **18**(4) 373-387 (1999), 9A884
Fracture characteristics of SiC particle reinforced oxynitride glass using chevron-notch three-point bend specimens, Int J Fracture **91**(1) 83-101 (1998), 9A885
Fracture in off-axis unidirectionally reinforced ceramic composites, Int J Fracture **90**(3) 209-234 (1998), 9A886
Influence of processing on morphology, interface, and delamination in PEEK-carbon composites, J Thermoplastic Composite Mat **12**(2) 84-95 (Mar 1999), 9A887
Local approach of the damage of multimaterials loaded in warping torsion, Sci Eng Comp Mat **8**(1) 35-43 (1999), 9A888
Mixed-mode failure criterion derived from tests on symmetric and asymmetric specimens, Composites Sci Tech **59**(4) 609-619 (Mar 1999), 9A889
Numerical procedure for elasticity and failure behavior prediction of textile-reinforced composite materials, J Thermoplastic Composite Mat **12**(3) 201-213 (May 1999), 9A890
Premature fracture of a composite nylon radiator, Eng Failure Anal **6**(3) 181-195 (Jun 1999), 9A891
Role of damage on the tensile behavior of a knitted fabric composite: A preliminary FE study, Sci Eng Comp Mat **8**(1) 11-24 (1999), 9A892
Stiffness degradation induced by multilayer intralaminar cracking in composite laminates, Composites Part A Appl Sci and Manuf **30A**(5) 683-706 (1999), 9A893
Theoretical analysis on the local critical stress and size effect for interfacial debondng in particle reinforced rheological materials, Acta Mech Solida Sinica **12**(1) 1-8 (1999), 9A894
Transverse cracking and delamination in cross-ply gr-ep composites under dry, saturated and immersed fatigue, Int J Fracture **91**(2) 103-116 (1998), 9A895
Thermal shock cracking in a metal-particle-reinforced ceramic matrix composite, Eng Fracture Mech **62**(4-5) 339-350 (Mar 1999), 9A1431
Stress concentrations in composites with interface sliding, matrix stiffness and uneven fiber spacing using shear lag theory, Int J Solids Struct **36**(28) 4333-4361 (Oct 1999), 10A616
Improved shear lag model for broken fibers in composite materials, J Composite Mat **33**(7) 667-680 (1999), 10A629
Mechanical properties of bone-shaped-short-fiber reinforced composites, Acta Mat **47**(6) 1767-1781 (Apr 1999), 10A630
Effect of strain rate on the interlaminar shear strength of a carbon-epoxy cross-ply laminate: Comparison between experiment and numerical prediction, Composites Sci Tech **59**(5) 749-758 (Apr 1999), 10A638
Stress transfer and stiffness reduction in orthogonally cracked laminates, Mech Mat **31**(5) 303-316 (May 1999), 10A639
Fracture mechanics using a 3D composite element, Composite Struct **45**(1) 29-39 (May 1999), 10A652
Shear-lag model for failure simulations of unidirectional fiber composites including matrix stiffness, Mech Mat **31**(5) 331-350 (May 1999), 10A656
Postbuckling response and strength of laminates under combined in-plane loads, Composites Sci Tech **59**(5) 727-736 (Apr 1999), 10A707
Anti-plane shear crack in a piezoelectric layer bonded to dissimilar half spaces, JSME Int J Ser A **42**(1) 66-72 (Jan 1999), 10A748
Interface crack problems of a laminated piezoelectric plate, Eur J Mech A **18**(2) 219-238 (Mar-Apr 1999), 10A755
Damage development in woven fabric composites during tension-tension fatigue, J Composite Mat **33**(7) 614-639 (1999), 10A832
Numerical simulation of delamination growth in layered composite plates, Eur J Mech A **18**(2) 291-312 (Mar-Apr 1999), 10A864
Analysis of compressive failure of layered materials by kink band broadening, Int J Solids Struct **36**(23) 3427-3441 (Aug 1999), 10A900
Axisymmetric model of pore-grain boundary separation, J Mech Phys Solids **47**(5) 1131-1155 (May 1999), 10A901
Crack tip fields of orthotropic composite plate under bending, Appl Math Mech **20**(2) 205-212 (Feb 1999), 10A902
Damage and fracture criterion for mixed mode crack of concrete on the basis of the maximum strain theory (Chinese), J Huazhong Univ Sci Tech **27**(2) 49-51 (Feb 1999), 10A903
Damage initiation under transverse loading of unidirectional composites with arbitrarily distributed fibers, Composites Sci Tech **59**(5) 673-682 (Apr 1999), 10A904
Dugdaills model for the crack on the interface of different media (Russian), Prikl Mekh (Appl Mech) **35**(1) 63-68 (1999), 10A905
Effect of displacement rate on the mode I fracture behavior of rubber toughened PMMA, JSME Int J Ser A **42**(1) 49-56 (Jan 1999), 10A906
Effect of fiber content on the interlaminar fracture toughness of unidirectional glass-fiber-polyamide composite, Composites Part A Appl Sci and Manuf **30A**(6) 747-755 (1999), 10A907
Effect of glass fiber-matrix interfacial quality on the dynamics of microfractures in GFRP - 1st Report: AE source simulation method and acoustic properties of UD-GFRP, JSME Int J Ser A **41**(3) 359-365 (Jul 1998), 10A908
Effect of glass fiber-matrix interfacial quality on the dynamics of microfractures in GFRP - 2nd Report: Dynamics of microfractures in UD GFRP by AE source simulation, JSME Int J Ser A **41**(3) 366-371 (Jul 1998), 10A909
Failure mechanisms of sisal fibers in composites, Adv Composites Letters **8**(1) 13-17 (1999), 10A910
Long-term crack-resistance of aging viscoelastic composite under static loading (Russian), Prikl Mekh (Appl Mech) **35**(2) 85-89 (1999), 10A911
A macromechanical damage model of fibrous laminated composites, Appl Composite Mat **6**(2) 99-199 (Mar 1999), 10A912
Matrix crack initiation and progression in composite laminates subjected to bending and extension, Int J Solids Struct **36**(21) 3131-3169 (Jul 1999), 10A913
Mechanical behavior of brittle matrix composites: A homogenization approach, Int J Solids Struct **36**(24) 3591-3615 (Aug 1999), 10A914
Multiscale modeling of the damaged plastic behavior and failure of Al-SiCp composites, Int J Plasticity **15**(6) 667-685 (1999), 10A915
Numerical simulations of adhesively-bonded beams failing with extensive plastic deformation, J Mech Phys Solids **47**(6) 1337-1353 (Jun 1999), 10A916
Experimental study on crack behavior of RC tensile members strengthened with carbon fiber sheets (Japanese), Proc JSCE **613**(V-42) 249-262 (Feb 1999), 10A989
Strength of bolted and bonded single-lapped composite joints in tension, J Composite Mat **33**(7) 640-666 (1999), 10A1060
Composite Materials: Fatigue and Fracture, 7th Volume (ASTM, PA, 1998) 11N19
Influence of processing method on the fracture toughness of thermoplastic-modified, carbon-fiber-reinforced epoxy composites, Composites Sci Tech **59**(7) 995-1001 (May-Jun 1999), 11A518
Damage mechanics of top-hat stiffeners used in FRP ship construction, Marine Struct **12**(1) 1-19 (Jan 1999), 11A525
Modeling of cracked thick metallic structure with bonded composite patch repair using three-layer technique, Composite Struct **45**(3) 185-193 (Jul 1999), 11A533
Methods of determination of shear properties of textile composites, Composites Part A Appl Sci and Manuf **30A**(7) 879-885 (1999), 11A554
Investigation of a cracked thick aluminum panel repaired with a bonded composite patch, Eng Fracture Mech **63**(3) 305-323 (Jun 1999), 11A736
Effects of fly ash on fatigue and fracture properties of hardened cement mortar, Cement & Concrete Composites **21**(3) 223-232 (1999), 11A740
Beam analysis of angle-ply laminate mixed-mode bending specimens, Composites Sci Tech **59**(6) 937-945 (May 1999), 11A804
Bridging stress distribution in center-cracked fiber reinforced metal laminates: Modeling and Experiment, Eng Fracture Mech **63**(2) 147-163 (May 1999), 11A805
Damage mechanics applied to concrete reinforced with amorphous cast iron fibers, concrete subjected to compression, Cement & Concrete Composites **21**(3) 197-204 (1999), 11A806
Deformation, yield and fracture of unidirectional composites in transverse loading - I: Influence of fiber volume fraction and test-temperature, Composites Part A Appl Sci and Manuf **30A**(7) 905-916 (1999), 11A807
Deformation, yield and fracture of unidirectional composites in transverse loading - 2: Influence of fiber-matrix adhesion, Composites Part A Appl Sci and Manuf **30A**(7) 917-932 (1999), 11A808
Evidence of stress transfer and formation of fracture clusters in carbon nanotube-based composites, Composites Sci Tech **59**(6) 975-977 (May 1999), 11A809
Fiber strength parameters measured in situ for ceramic-matrix composites tested at elevated temperature in vacuum and in air, Composites Sci Tech **59**(6) 801-811 (May 1999), 11A810
Graphite-fiber-carbide-matrix composites - Part III: Fracture behavior of composites with a boron-carbide matrix, Composites Sci Tech **59**(6) 873-877 (May 1999), 11A811
Mode I interlaminar fracture toughness properties of advanced textile fiberglass composites, Composites Part A Appl Sci and Manuf **30A**(7) 859-870 (1999), 11A812
Transverse tensile behavior of SiC-fiber-Ti-6Al-4V composites - Part II: Stress distribution and interface failure, Composites Sci Tech **59**(7) 1087-1096 (May-Jun 1999), 11A813
Finite element method for predicting time-dependent deformations and damage accumulation in laminated composite bolted joints, J Composite Mat **33**(9) 794-826 (1999), 12A24
Three dimensional moduli and saturation crack density for cross-ply laminates with transverse cracks, Int J Damage Mech **8**(3) 273-309 (Jul 1999), 12A631
Effects of fiber coating (size) on properties of glass fiber-vinyl ester composites, Composites Part A Appl Sci and Manuf **30A**(8) 1009-1015 (1999), 12A633
Mechanical properties of long-fiber thermoplastic composites with laser drilled microperforations - 1: Effect of perforations in consolidated material, Composites Sci Tech **59**(8) 1169-1180 (Jun 1999), 12A636
Mechanical properties of long-fiber thermoplastic composites with laser drilled microperforations - 2: Effect of prior plastic strain, Composites Sci Tech **59**(8) 1181-1187 (Jun 1999), 12A637
Effects of stacking sequence on microscopic fatigue damage development in quasi-isotropic CFRP laminates with interlaminar-toughened layers, Composites Sci Tech **59**(9) 1387-1398 (Jul 1999), 12A767
Delamination growth behavior of a fabric reinforced laminated composite under mode I fatigue, J Eng Mat Tech **121**(3) 381-385 (Jul 1999), 12A780
Analysis of intersonic crack growth in unidirectional fiber-reinforced composites, J Mech Phys Solids **47**(9) 1893-1916 (Sep 1999), 12A827
Compressive failure of 0° unidirectional carbon-fiber-reinforced plastic laminates by fiber microbuckling, Composites Sci Tech **59**(9) 1451-1455 (Jul 1999), 12A828
Effect of ply thickness and fiber orientation on delamination initiation in broken ply composite laminates, J Reinforced Plastics Composites **18**(8) 735-758 (1999), 12A829
Effect of thermal aging on the Mode-I interlaminar fracture behavior of a high-temperature IM7-LaRC-RP46 composite, Composites Sci Tech **59**(8) 1271-1286 (Jun 1999), 12A830
Influence of winding patterns on the damage behavior of filament-wound pipes, Composites Sci Tech **59**(9) 1439-1449 (Jul 1999), 12A831
Interlaminar fracture toughness of 3D orthogonal interlocked fabric composites, Composites Sci Tech **59**(8) 1261-1270 (Jun 1999), 12A832
Micromechanics-based FE model for compressive failure of notched uniply composite laminates under remote biaxial loads, J Eng Mat Tech **121**(3) 360-366 (Jul 1999), 12A833
Notch sensitivity of carbon-epoxy fabric laminates, Composites Sci Tech **59**(8) 1143-1151 (Jun 1999), 12A834
Transverse matrix cracking in cross-ply laminates loaded in simple bending, Composites Part A Appl Sci and Manuf **30A**(8) 1003-1008 (1999), 12A835
Monitoring delamination growth in CFRP materials using eddy currents, Nondestruct Test Eval **15**(2) 65-82 (Apr 1999), 12A877

276L. Other anisotropic and nonhomogeneous media

Enhanced consolidation in brittle geomaterials susceptible to damage, Mech Cohesive-Frictional Mat **3**(3) 291-303 (Jul 1998), 1A33
Poroelastic behavior of brittle rock materials with anisotropic damage, Mech Mat **30**(1) 41-53 (Sep 1998), 1A754

Continuum damage and failure evolution in inhomogeneous ceramic rods, Arch Mech **50**(1) 21-40 (1998), 1A900
Crack emanating from the tip of bonded dissimilar materials, Appl Math Mech **19**(5) 463-478 (May 1998), 1A901
Effect of texture on fracture of fibrous materials, Comput Methods Appl Mech Eng **161**(1-2) 103-112 (Aug 1998), 1A902
Prediction of surface crack during cylindrical upsetting of porous materials by FEM (Chinese), J Shanghai Jiaotong Univ **32**(5) 14-17 (May 1998), 1A903
Effect of interfacial carbon on adhesion and toughness of gold-sapphire interfaces, Acta Mat **46**(13) 4835-4850 (Aug 1998), 2A884
Interspecies comparison of bone fracture properties, Bio-Med Mat Eng **8**(1) 1-9 (1998), 2A1528
Statistical Physics of Fracture and Breakdown in Disordered Systems (Oxford UP, New York, 1997) 3N22
Particle cracking in discretely reinforced materials with the Voronoi Cell FE model, Int J Plasticity **14**(8) 805-827 (1998), 3A39
Influence of porosity on the failure behavior of foams, Int J Damage Mech **7**(4) 301-331 (Oct 1998), 3A533
Shear properties of a sandwich composite containing defects, Composite Struct **42**(2) 107-118 (Jun 1998), 3A628
Modeling crack propagation in anisotropic media, Eng Fracture Mech **60**(4) 457-478 (Jul 1998), 3A738
Intergranular and transgranular crack growth at triple junction boundaries in ordered intermetallics, Int J Plasticity **14**(8) 689-702 (1998), 3A826
Measurement of adhesive joint fracture properties as a function of environmental degradation, Int J Adhesion Adhesives **18**(4) 237-246 (Aug 1998), 3A827
Micromechanical model for interface crack extension in metal-ceramic bimaterial systems, Acta Mat **46**(14) 4973-4984 (Sep 1998), 3A828
Cracking and loss of adhesion of Si_3N_4 and SiO_2:P films deposited on Al substrates, J Adhesion Sci Tech **12**(11) 1219-1242 (1998), 3A999
Effect of fibrilation on the tack of pressure sensitive adhesives, Int J Adhesion Adhesives **18**(4) 265-271 (Aug 1998), 3A1000
Experimental investigation of failure initiation in bonded joints, Acta Mat **46**(14) 4895-4904 (Sep 1998), 3A1002
Axisymmetric and asymmetric postbuckling response and energy release rate of delaminated circular film, Int J Mech Sci **41**(1) 43-58 (Jan 1999), 4A666
Fatigue crack growth in double cantilever beam specimen with an adhesive layer, Eng Fracture Mech **60**(5-6) 605-614 (Jul 1998), 4A768
Maximal crack tip shielding by microcracking in orthotropic elastic solids (Chinese), J Xi'an Jiaotong Univ **32**(10) 65-69 (1998), 4A811
Gradient-enhanced damage modeling of concrete fracture, Mech Cohesive-Frictional Mat **3**(4) 323-342 (Oct 1998), 4A831
Interface edge crack in a bimaterial elastic half-plane, Int J Fracture **88**(3) 281-304 (1998), 4A832
Plane elastic problem of a crack normal to and terminating at bimaterial interface of isotropic and orthotropic half plates, Int J Fracture **88**(4) 393-406 (1998), 4A833
Punching shear in concrete slabs, Int J Mech Sci **41**(1) 1-15 (Jan 1999), 4A834
Penny shaped crack in a transversely isotropic material under non-axisymmetric impact loads, Int J Solids Struct **36**(1) 35-64 (Jan 1999), 4A839
Analysis of interfacial cracks in a TBC-superalloy system under thermal loading, Eng Fracture Mech **60**(5-6) 577-581 (Jul 1998), 4A1410
Multiple surface thermal fracture of graded ceramic coatings, J Thermal Stresses **21**(7) 715-725 (Oct 1998), 4A1411
Fracture criterion for conducting cracks in homogeneously poled piezoelectric PZT-PIC 151 ceramics, Acta Mat **46**(18) 6615-6622 (Nov 1998), 5A572
Damage model for jointed rock mass and its application to tunneling, Comput Geotech **22**(3-4) 183-203 (1998), 5A619
Crack face interaction and mixed mode fracture of wood composites during mode III loading, Eng Fracture Mech **61**(2) 253-278 (Sep 1998), 5A726
Crack growth across a strength mismatched bimaterial interface, Int J Fracture **89**(3) 223-243 (1998), 5A727
Three-dimensional interface cracks in anisotropic bimaterials: The non-oscillatory case, J Appl Mech **65**(4) 1048-1055 (Dec 1998), 5A728
Coupling model of reinforced concrete fracture, Mat Struct **31**(213) 602-608 (Nov 1998), 5A783
Application of the Tsai-Wu quadratic multiaxial failure criterion to bovine trabecular bone, J Biomech Eng **121**(1) 99-107 (Feb 1999), 5A1543
Split singularities: Stress field near the edge of a silicon die on a polymer substrate, Acta Mat **47**(1) 67-76 (Dec 1998), 6A562
Damage index for the characterization of confined masonry subjected to lateral cyclical loads (French), Mat Struct **31**(214) 692-698 (Dec 1998), 6A571
Numerical analysis of hygro-thermal behavior and damage of concrete at high temperature, Mech Cohesive-Frictional Mat **4**(1) 37-74 (Jan 1999), 6A590
Viscoelastic constitutive modeling of asphalt concrete with growing damage, Struct Eng and Mech **7**(2) 225-240 (Feb 1999), 6A591
Bases of the theory of long-term failure of viscoelastic anisotropic bodies with cracks under the effect varying extremal loads (Russian), Prikl Mekh (Appl Mech) **34**(10) 60-66 (1998), 6A901
Delayed fracture of ceramics caused by stress-dependent surface reactions, Acta Mat **47**(1) 77-88 (Dec 1998), 6A942
Dynamic interaction between a matrix crack and a circular inhomogeneity with a distinct interphase, Int J Solids Struct **36**(4) 517-531 (Feb 1999), 6A943
Dynamic response for nonhomogeneous piezoelectric medium with multiple cracks, Eng Fracture Mech **61**(5-6) 607-617 (Nov-Dec 1998), 6A944
Effect of composite wrapping on the fracture behavior of the steel-lined hoop-wrapped cylinders, Int J Pressure Vessels Piping **75**(13) 931-937 (Nov 1998), 6A945
Experimental study of fracture of lightly reinforced concrete beams, Mat Struct **31**(214) 683-691 (Dec 1998), 6A1035
Thermoelastic behavior of a transversely isotropic material containing a flat toroidal crack, J Thermal Stresses **21**(9) 881-895 (Dec 1998), 6A1408
Energy-based damage model of geomaterials - I: Formulation and numerical results, Int J Solids Struct **36**(12) 1719-1734 (Apr 1999), 7A646
Energy-based damage model of geomaterials - II: Deduction of damage evolution laws, Int J Solids Struct **36**(12) 1735-1755 (Apr 1999), 7A647
Effects of strain cycling on buckling, cracking and spalling of a thermally grown alumina on a nickel-based bond coat, Acta Mat **47**(2) 699-710 (Jan 1999), 7A716
Damaged hyperelastic medium: Mullins effect with irreversible strain, Int J Damage Mech **8**(1) 82-101 (Jan 1999), 7A751
Penny-shaped crack in inhomogeneous elastic materials under normal extension, Int J Solids Struct **36**(13) 1869-1882 (May 1999), 7A752
Self-desiccation microcracking and HPC and VHPC durability (French), Mat Struct **32**(215) 14-21 (Jan-Feb 1999), 7A753
Evaluation method for microscopic and macroscopic properties of damaged materials containing distributed elliptical microcracks (Japanese), J Soc Mat Sci Japan **47**(12) 1258-1263 (Dec 1998), 7A757
Model for cracking in fiber-reinforced concrete structures, Mat Struct **32**(216) 125-130 (Mar 1999), 8A588
Numerical analysis of cracked inelastic shells with large displacements or mixed mode loading, Int J Solids Struct **36**(15) 2259-2283 (May 1999), 8A630
Simplified method for calculating the crack-tip field of functionally graded materials using the domain integral, J Appl Mech **66**(1) 101-108 (Mar 1999), 8A779
Brittle compressive failure of orthotropic ice under triaxial loading, Acta Mat **47**(3) 745-755 (Feb 1999), 8A800
Theory and prediction of localized failure in materials, Mech Cohesive-Frictional Mat **4**(2) 101-194 (Mar 1999), 8A801
Theory of continuum damage mechanics for anisotropic solids, J Appl Mech **66**(1) 264-268 (Mar 1999), 8A802
Shear stress contributions and failure mechanisms of high strength reinforced concrete beams, Mat Struct **32**(216) 112-116 (Mar 1999), 8A871
Analytical study on the cracking transition of concrete shear key, Mat Struct **32**(217) 196-202 (Apr 1999), 9A23
Failure mode maps for honeycomb sandwich panels, Composite Struct **44**(4) 237-252 (Apr 1999), 9A699
Anti-plane crack moving along the interface of dissimilar piezoelectric materials, Acta Mech Solida Sinica **12**(1) 31-35 (1999), 9A896
Comparison of elastic interaction of a dislocation and a crack for four bending conditions of the crack plane, Int J Fracture **91**(2) 149-164 (1998), 9A897
Consistency check for strongly interacting multiple crack problems in isotropic, bimaterial and orthotropic bodies, Int J Fracture **89**(4) 333-353 (1998), 9A898
Coupled solution for anisotropic piezoelectric materials with cracks, Acta Mech Solida Sinica **12**(1) 83-90 (1999), 9A899
Griffith crack moving along the interface of two dissimilar piezoelectric materials, Int J Fracture **91**(2) 197-203 (1998), 9A900
Investigation of macrocrack-microcrack interaction problems in anisotropic elastic solids - Part I: General solution to the problem and application of the J-integral, Int J Fracture **91**(1) 61-82 (1998), 9A901
Numerical analysis of ductile failure of undermatched interleaf in tension, Int J Fracture **91**(4) 323-347 (1998), 9A902
Reduction of free-edge stress intensities in anisotropic bimaterials, Int J Fracture **91**(2) 165-177 (1998), 9A903
Spalling failure of a thermal barrier coating associated with aluminum depletion in the bond-coat, Acta Mat **47**(4) 1297-1305 (Mar 1999), 9A904
Cracking in reinforced concrete flexural members - A reliability model, Struct Eng and Mech **7**(3) 303-318 (Mar 1999), 9A985
Damage assessment of reinforced concrete framed structures by cracked beam element (Chinese), J Vib Eng **12**(1) 115-119 (Mar 1999), 9A986
Modeling unilateral damage effect in strongly anisotropic materials by the introduction of the loading mode in damage mechanics, Int J Solids Struct **36**(28) 4269-4287 (Oct 1999), 10A882
Analysis of the driving forces for multiple cracks in an infinite nonhomogeneous plate - Part I: Theoretical analysis, J Appl Mech **66**(2) 492-500 (Jun 1999), 10A884
Analysis of the driving forces for multiple cracks in an infinite nonhomogeneous plate - Part II: Numerical solutions, J Appl Mech **66**(2) 501-506 (Jun 1999), 10A885
Axisymmetrical elastic behavior and stress intensity factor for a nonhomogeneous medium with a penny-shaped crack, JSME Int J Ser A **41**(4) 457-464 (Oct 1998), 10A889
Analysis of shear band instabilities in sintered metals, Int J Solids Struct **36**(24) 3661-3676 (Aug 1999), 10A917
Critical radius for interface separation of a compressively stressed film from a rough surface, Acta Mat **47**(6) 1749-1756 (Apr 1999), 10A918
Deformation and damage characteristics of porous materials under different triaxialities, JSME Int J Ser A **41**(1) 79-95 (Jan 1998), 10A919
Induced damage by ellipsoidal cracks in an anisotropic medium, Int J Solids Struct **36**(24) 3709-3729 (Aug 1999), 10A920
Interface crack in laminated anisotropic medium, Int J Solids Struct **36**(28) 4251-4268 (Oct 1999), 10A921
Microprobe piezo-spectroscopy for the micromechanical analysis of fracture and deformation phenomena in polycrystalline ceramics, Composites Sci Tech **59**(6) 821-831 (May 1999), 11A814
Cracking of prestressed concrete structures: Modelization, validation, and interpretation (French), Mat Struct **32**(219) 360-369 (Jun 1999), 11A894
Tensile creep behavior of high strength concretes at early ages, Mat Struct **32**(219) 383-387 (Jun 1999), 11A909
Crack problems of piezoelectric materials, Acta Mech Solida Sinica **12**(2) 95-105 (Jun 1999), 12A836
Dynamic response for functionally graded materials with penny-shaped cracks, Acta Mech Solida Sinica **12**(2) 106-113 (Jun 1999), 12A837
Interface crack model with contact zones situated in an anisotropic bimaterial, Arch Appl Mech **69**(5) 317-335 (Jun 1999), 12A838
Toughness of aluminium alloy foams, Acta Mat **47**(8) 2331-2343 (Jun 1999), 12A839

276N. Crack stability and branching

Effect of cracks on the natural frequency of cantilevered plates: A Rayleigh-Ritz solution, Mech Struct Machines **26**(2) 131-143 (1998), 1A153
Statistical model of coating fragmentation under equibiaxial load, Mat Manuf Processes **13**(4) 597-602 (1998), 2T1024
Case of crack path bifurcation in cohesive materials, Arch Appl Mech **68**(7-8) 513-523 (Sep 1998), 3A829
Crack paths in 3D elastic solids - I: Two-term expansion of the stress intensity factors - application to crack path stability in hydraulic fracturing, Int J Solids Struct **36**(1) 79-103 (Jan 1999), 4A835
Crack paths in 3D elastic solids - II: Three-term expansion of the stress intensity factors - applications and perspectives, Int J Solids Struct **36**(1) 105-142 (Jan 1999), 4A836
Interactions of kinked interfacial cracks, Int J Solids Struct **36**(2) 241-268 (Jan 1999), 5A729
Interaction between coplanar elliptic cracks - II: Shear loading, Int J Solids Struct **36**(4) 619-637 (Feb 1999), 6A946
Radial cracks in a sheet weakened by a pressurized circular hole, Meccanica **33**(6) 533-540 (Dec 1998), 6A947
Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N19
Interaction and branching of fast running cracks: A numerical investigation, J Mech Phys Solids **47**(4) 935-952 (Apr 1999), 8A803
Stochastic theory for the problem of multiple surface crack coalescence, Int J Fracture **91**(1) 23-45 (1998), 9A843
Stability of arrays of multiple edge cracks, Eng Fracture Mech **62**(6) 577-591 (Apr 1999), 9A905
Problem on arbitrarily oriented crack in the buckled shell (Russian), Prikl Mekh (Appl Mech) **34**(12) 48-54 (1998), 10A727
Interacting multiple cracks in piezoelectric materials, Int J Solids Struct **36**(27) 4183-4202 (Sep 1999), 10A922
Multiple parallel cracks interaction problem in piezoelectric ceramics, Int J Solids Struct **36**(22) 3375-3390 (Aug 1999), 10A923

276Q. Impulsive loading and impact

Break of elastic filament under transverse impact with a wedge (Russian), Prikl Mekh (Appl Mech) **33**(7) 79-83 (1997), 2T301
Solar array degradation by dust impacts during cometary encounters, J Spacecraft Rockets **35**(4) 579-582 (Jul-Aug 1998), 2T885
Three-dimensionality and effects of void volume fraction on the plate-impact analysis taking account of dynamic void development (Japanese), J Soc Mat Sci Japan **47**(7) 684-690 (Jul 1998), 3A771
Analysis of load oscillations in instrumented impact testing, Eng Fracture Mech **60**(4) 437-446 (Jul 1998), 3A830
Fracture behavior of plate glasses by projectile impact (Japanese), J Soc Mat Sci Japan **47**(8) 830-835 (Aug 1998), 3A831
Numerical simulation of high-speed impacts in brittle materials using the particle methods (Japanese), J Soc Mat Sci Japan **47**(8) 825-829 (Aug 1998), 3A832
Anisotropic damage model for impacted ceramic materials: Application to silicon carbide, Int J Impact Eng **21**(8) 683-693 (Sep 1998), 4A227
Effect of thickness on the relationship between shear lip and energy in dynamic tear specimens, Eng Fracture Mech **60**(5-6) 529-542 (Jul 1998), 4A837
Modeling of elastic response of a three-point bend specimen under impact loading, Eng Fracture Mech **60**(5-6) 563-575 (Jul 1998), 4A838
Penny shaped crack in a transversely isotropic material under non-axisymmetric impact loads, Int J Solids Struct **36**(1) 35-64 (Jan 1999), 4A839
Influence of inertial effects on the fracture of rapidly loaded compact tension specimens - Part A: Loading and fracture initiation, Int J Fracture **89**(1) 85-102 (1998), 5A730
Transient response of a cracked infinite piezoelectric strip under antiplane impact, Fatigue Fracture Eng Mat Struct **21**(11) 1381-1388 (1998), 6A723
Charpy specimen: A simply supported beam or a constrained free-free beam, Eng Fracture Mech **61**(3-4) 369-386 (Sep-Nov 1998), 6A948
Finite element study of the effects of material characteristics and crack tip constraint on dynamic ductile fracture initiation, J Mech Phys Solids **47**(2) 325-350 (Feb 1999), 7A754
Impact loads due to wheel flats and shells, Vehicle Syst Dyn **31**(1) 1-22 (Jan 1999), 7A874
New breakaway mailbox designed using nonlinear FE analysis, Finite Elements Anal Des **32**(1) 37-49 (Mar 1999), 9A29
Dynamic antiplane behavior of interacting cracks in a piezoelectric medium, Int J Fracture **91**(4) 391-403 (1998), 9A906
Impact-echo from a unilateral interlayer crack: LCP-BEM modeling and neural identification, Eng Fracture Mech **62**(2-3) 165-184 (Jan-Feb 1999), 9A907
Response of finite cracks in orthotropic materials due to concentrated impact shear loads, J Appl Mech **66**(2) 485-491 (Jun 1999), 10A924
Torsional impact response of a functionally graded material with a penny-shaped crack, J Appl Mech **66**(2) 566-567 (Jun 1999), 10T925
Thermal fracture in a biomaterial during rapid freezing, J Thermal Stresses **22**(3) 275-292 (Apr 1999), 10A1394
Spall fracture: Mechanical and microstructural aspects, Eng Fracture Mech **63**(3) 273-294 (Jun 1999), 11A815
Charpy impact verification data (1994 - 1996): A summary, J Test Eval **27**(2) 89-99 (Mar 1999), 12A840
Strength of adhesively-bonded butt joints of tubes subjected to combined high-rate loads, J Adhesion **70**(1-2) 57-73 (May 1999), 12A1023

276S. Dynamic crack propagation

Antiplane shear crack growth under quasistatic loading in a damaging material, Int J Solids Struct **35**(28-29) 3695-3715 (Oct 1998), 1A824
Interaction elastic waves of longitudinal shear with radially distributed cracks, Prikl Mekh (Appl Mech) **34**(2) 60-66 (1998), 1A904
Three-dimensional interaction between a crack front and particles, Int J Numer Methods Eng **42**(8) 1463-1476 (Aug 1998), 1A905

Advances in failure mechanisms in brittle materials, Mech Mat **29**(3-4) 143-340 (Aug 1998), 2A863
Intersonic crack propagation along interfaces: Experimental observations and analysis, Exp Mech **38**(3) 218-225 (Sep 1998), 2A886
Behavior of crack surface ligaments, Nucl Eng Des **184**(1) 145-153 (Aug 1998), 3A833
Stress intensity factors for moving interfacial crack between bonded dissimilar fixed orthotropic layers, Comput Struct **69**(4) 459-472 (Nov 1998), 3A834
Penny shaped crack in a transversely isotropic material under non-axisymmetric impact loads, Int J Solids Struct **36**(1) 35-64 (Jan 1999), 4A839
Critical examination of cohesive-zone models in the theory of dynamic fracture, J Mech Phys Solids **46**(9) 1521-1556 (Sep 1998), 4A840
Influence of temperature on dynamic failure mode transitions, Mech Mat **30**(3) 217-227 (Nov 1998), 4A841
Mode-mixity and dynamic failure mode transitions in polycarbonate, Mech Mat **30**(3) 197-216 (Nov 1998), 4A842
Ab initio dynamics of rapid fracture, Model Simulation Mat Sci Eng **6**(5) 639-670 (Sep 1998), 5A731
Dynamic overshoot in α-iron by atomistic simulations, Model Simulation Mat Sci Eng **6**(5) 521-542 (Sep 1998), 5A732
Full field analysis of an anti-plane interface crack subjected to dynamic body forces, Int J Solids Struct **36**(2) 285-309 (Jan 1999), 5A733
Proceedings of a Symposium on the dynamic deformation and failure mechanics of materials, honoring Professor RJ Clifton, held May 1997 at the California Institute of Tecnology, J Mech Phys Solids **46**(10) 1699-2181 (Oct 1998), 5T734
Thermal trapping and kinetics of martensitic phase boundaries, J Mech Phys Solids **47**(1) 141-172 (Jan 1999), 6A11
Closed form solution about stress intensity factors of shear modes for 3D finite bodies with eccentric cracks by the energy release rate method, Int J Solids Struct **36**(7) 971-998 (Mar 1999), 6A523
Effect of elastic mismatch in intersonic crack propagation along a bimaterial interface, Eng Fracture Mech **61**(5-6) 471-485 (Nov-Dec 1998), 6A949
Effect of the geometry and the load level on the dynamic failure of rotating disks, Int J Solids Struct **36**(6) 789-812 (Feb 1999), 6A950
Element free Galerkin analysis of steady dynamic growth of a mode I crack in elastic-plastic materials, Int J Solids Struct **36**(7) 1045-1079 (Mar 1999), 6A951
Element-failure algorithm for dynamic crack propagation in general directions, Eng Fracture Mech **61**(3-4) 407-425 (Sep-Nov 1998), 6A952
Finite element study of the effects of material characteristics and crack tip constraint on dynamic ductile fracture initiation, J Mech Phys Solids **47**(2) 325-350 (Feb 1999), 7A754
Three-dimensional dynamic fracture analysis with the dual reciprocity method in Laplace domain, Eng Anal Boundary Elements **23**(1) 51-58 (Jan 1999), 7A755
Influence of loading rate on the interlaminar fracture properties of high performance composites: A review, Appl Mech Rev **52**(6) 199-212 (Jun 1999), 8A785
High-velocity expansion of a cavity within a brittle material, J Mech Phys Solids **47**(3) 577-610 (Mar 1999), 8A804
Use of fracture mechanics and shape optimization for component designs, AIAA J **37**(2) 255-260 (Feb 1999), 8A805
Investigation of the scattering of harmonic elastic antiplane shear waves by a finite crack using the non-local theory, Int J Fracture **91**(1) 13-22 (1998), 9A235
Numerical simulations of a dynamically propagating crack with a nonlinear cohesive zone, Int J Fracture **91**(4) 373-389 (1998), 9A908
Theory and experiment, Int J Fracture **90**(1-2) 1-174 (1998), 9A909
Fast pulsed laser technology enables dynamic fracture analysis, Mat Eval **57**(4) 434-439 (Apr 1999), 9A947
Buckle propagation and fracture in pipelines, Int J Offshore Polar Eng **9**(1) 30-38 (Mar 1999), 10A721
Solution of dynamic problems on concentration of elastic stresses in the vicinity of defects on cylindrical surfaces (Russian), Prikl Mekh (Appl Mech) **35**(1) 28-36 (1999), 10T824
Analytical and numerical study of failure waves, Int J Solids Struct **36**(26) 3977-3991 (Sep 1999), 10A926
Constitutive relation and failure criterion for Ti6Al4V alloy at impact rates of strain, J Mech Phys Solids **47**(5) 1157-1185 (May 1999), 10A927
Dynamic J integral, separated dynamic J integrals and moving FE simulations, for subsonic, transonic and supersonic interfacial crack propagation, JSME Int J Ser A **42**(1) 25-39 (Jan 1999), 10A928
Dynamic problems of mechanics of brittle failure of materials with initial stresses for propagating cracks - 3: Cracks of transversal (mode II) and longitudinal (mode III) - displacement (Russian), Prikl Mekh (Appl Mech) **35**(2) 3-14 (1999), 10A929
Dynamic problems of mechanics of brittle failure of materials with initial stresses for propagating cracks - 2: Cracks of normal separtion (mode I) (Russian), Prikl Mekh (Appl Mech) **35**(1) 3-16 (1999), 10A930
Dynamic problems of mechanics of brittle fracture of materials with initial stresses for propagating cracks (Russian), Prikl Mekh (Appl Mech) **34**(12) 3-15 (1998), 10A931
Effect of the crack edge surface contacts on characteristics of fracture mechanics under the effect of P- and SV-waves (Russian), Prikl Mekh (Appl Mech) **35**(2) 70-75 (1999), 10A932
Intersonic mode II crack acceleration, Fatigue Fracture Eng Mat Struct **22**(1) 17-24 (1999), 10A933
Mixed mode rock fracture model for the prediction of crack path, Int J Numer Anal Methods Geomech **23**(4) 281-294 (Apr 1999), 11A674
Perturbation of a dynamic planar crack moving in a model elastic solid, J Mech Phys Solids **47**(8) 1633-1661 (Aug 1999), 11A816
Transient analysis of a propagating crack with finite length subjected to a horizontally polarized shear wave, Int J Solids Struct **36**(30) 4609-4627 (Oct 1999), 11A817
Dynamic response of a cracked piezoelectric ceramic under arbitrary electro-mechanical impact, Int J Solids Struct **36**(33) 5125-5133 (Nov 1999), 12A762
Effect of austempering variables on the quasi-static and dynamic fracture toughness of austempered ductile iron, J Test Eval **27**(2) 100-105 (Mar 1999), 12A841
Further studies on the characteristics of the T_ε^* integral: Plane stress stable crack propagation in ductile materials, Comput Mech **23**(4) 339-352 (May 1999), 12A842
Radiation-free transonic motion of cracks and dislocations, J Mech Phys Solids **47**(9) 1941-1961 (Sep 1999), 12A843

276U. Crack arrest or retardation

Development of a testing mahcine for three point bending of ceramics in controlled crack extension (Japanese), J Japan Soc Precision Eng **64**(6) 871-874 (Jun 1998), 1A500
Fundamental studies of injecting properties for inorganic repairing materials, Proc JSCE **599**(V-40) 49-57 (Aug 1998), 4A843
Repair and strengthening of sewerage concrete structures using fiber sheet (Japanese), Proc JSCE **599**(V-40) 59-69 (Aug 1998), 4A844
Study on allowable boundary on repair, Proc JSCE **599**(V-40) 41-48 (Aug 1998), 4A845
High Pressure Vessels (Chapman and Hall, New York, 1998) 5R15
Energy balance in crack propagation and arrest, Eng Fracture Mech **61**(2) 231-251 (Sep 1998), 5A735
Conditions under which velocity-weakening friction allows a self-healing versus a cracklike mode of rupture, Bull Seismol Soc Am **88**(6) 1466-1483 (Dec 1998), 6A953
Reinforcement of a cracked plate by two systems of the mutually perpendicular stringers (Russian), Prikl Mekh (Appl Mech) **34**(7) 64-72 (1998), 6A954
Crack bridging model for bonded plates subjected to tension and bending, Int J Solids Struct **36**(13) 1985-2014 (May 1999), 7A577
Finite element investigation of the effect of crack tip constraint on hole growth under mode I and mixed mode loading, Int J Solids Struct **36**(10) 1427-1447 (Apr 1999), 7A756
Piezoelectric BE crack closure calculation of 3D strain energy release rates, J Intelligent Mat Syst Struct **9**(4) 251-259 (Apr 1998), 8A57
Magnitudes of local stress and strain along bony surfaces predict the course and type of fracture healing, J Biomech **32**(3) 255-266 (Mar 1999), 8A1571
Finite element model for crack arrestor design in gas pipelines, Fatigue Fracture Eng Mat Struct **22**(1) 59-66 (1999), 10A45
Long-term crack-resistance of aging viscoelastic composite under static loading (Russian), Prikl Mekh (Appl Mech) **35**(2) 85-89 (1999), 10A911
Axial crack propagation and crack kinking criteria in pressurized fuselage, JSME Int J Ser A **41**(3) 352-358 (Jul 1998), 10A934
Crack resistance of sheet structural materials in biaxial tension (Russian), Prikl Mekh (Appl Mech) **34**(11) 78-83 (1998), 10A935
Fundamental study on crack closing and surface improvement of reinforced concrete by electrodeposition method (Japanese), Proc JSCE **613**(V-42) 201-210 (Feb 1999), 10A936

276W. Micromechanisms

Interaction of very small voids with larger voids, Int J Solids Struct **35**(30) 3989-4000 (Oct 1998), 1A532
Basic elementary particle as a martensite nucleus, J Mech Behavior Mat **9**(1) 43-46 (1998), 1A906
Volume averaging, effective stress rules, and inversion for microstructural response of multicomponent porous media, Int J Solids Struct **35**(34-35) 4811-4843 (Dec 1998), 3A15
Analysis of cast steel fracture mechanisms for different states of stress, Fatigue Fracture Eng Mat Struct **21**(8) 965-975 (1998), 3A835
Effect of the opening-closure of microcracks on the nonlinear behavior of a 2D C-SiC composite under cyclic loading, Int J Damage Mech **7**(4) 381-402 (Oct 1998), 3A836
Microcrack growth parameters for compact bone deduced from stiffness variations, J Biomech **31**(7) 587-592 (Jul 1998), 3A837
Microcrack toughening in two-phase multilayered media (Mendelsohn), Acta Mat **46**(15) 5385-5397 (Sep 1998), 3A838
Nanomechanics and Nanofracture, Eng Fracture Mech **61**(1) 1-187 (Aug 1998), 5A736
Mesoscopic Dynamics of Fracture: Computational Materials Design (Springer-Verlag, New York, 1998) 6N23
Failure of steels caused by hydrogen induced microcracking, Eng Fracture Mech **61**(3-4) 299-310 (Sep-Nov 1998), 6A867
Interconnect damage by electromigration: Experiment and numerical simulation, Acta Mat **47**(1) 89-99 (Dec 1998), 6A883
Determination of maximum allowable strain for polysilicon micro-devices, Eng Failure Anal **6**(1) 27-41 (Feb 1999), 6A955
Micromechanical damage theory for brittle materials with small cracks, Fatigue Fracture Eng Mat Struct **21**(11) 1337-1349 (1998), 6A956
Micromechanical modeling of damage and fracture of ductile materials, Fatigue Fracture Eng Mat Struct **21**(10) 1175-1188 (1998), 6A957
Non-local effects on dynamic damage accumul36ion in brittle solids, Int J Numer Anal Methods Geomech **23**(1) 1-21 (Jan 1999), 6A958
Principles of micromechanics of material damageability - I: Short-time damageability (Russian), Prikl Mekh (Appl Mech) **34**(10) 120-127 (1998), 6A959
Evaluation method for microscopic and macroscopic properties of damaged materials containing distributed elliptical microcracks (Japanese), J Soc Mat Sci Japan **47**(12) 1258-1263 (Dec 1998), 7A757
Inelastic effects of microcracking: A new continuum damage model, Int J Damage Mech **8**(1) 61-81 (Jan 1999), 7A758
Microcracks, microcracking, in-vivo, in-vitro, in-situ and other issues, J Biomech **32**(2) 209-211 (Feb 1999), 7T759
Model of quasibrittle fracture of solids, Int J Damage Mech **8**(1) 18-40 (Jan 1999), 7A760
High-velocity expansion of a cavity within a brittle material, J Mech Phys Solids **47**(3) 577-610 (Mar 1999), 8A804
Analytical and experimental methods for a fracture mechanics interpretation of the microbond test including the effects of friction and thermal stresses, Int J Adhesion Adhesives **19**(1) 59-70 (Feb 1999), 8A806
Coalescence of voids in prestrained notched round copper bars, Fatigue Fracture Eng Mat Struct **21**(12) 1459-1472 (1998), 8A807
Dislocation dynamics simulations in the presence of interacting cracks, J Eng Mat Tech **121**(2) 151-155 (Apr 1999), 8A808
Gradient deformation models at nano, micro, and macro scales, J Eng Mat Tech **121**(2) 189-202 (Apr 1999), 8A809
Effective moduli for thermopiezoelectric materials with microcracks, Int J Fracture **91**(4) 359-371 (1998), 9A737
Constitutive relations for elastic microcracked bodies: From a lattice model to a multifield continuum description, Int J Damage Mech **8**(2) 153-173 (Apr 1999), 9A910
Effective elastic compliances and engineering constants for damaged isotropic solids, Int J Damage Mech **8**(2) 138-152 (Apr 1999), 9A911
Macrocrack extension by connecting statistically distributed microcracks, Int J Fracture **90**(4) 341-353 (1998), 9A912
Micromechanical analysis of the ductile-brittle transition at a weld, Eng Fracture Mech **62**(4-5) 317-338 (Mar 1999), 9A913
Micromechanics model for the detachment of residually compressed brittle films and coatings, Acta Mat **47**(5) 1513-1522 (Mar 1999), 9A914
Nondestructive evaluation of microcracks in ceramics with controlled probability of false alarm, Res Nondestructive Eval **11**(1) 15-24 (1999), 9A915
T-stress of an interface macrocrack induced by near tip subinterface microcracks, Int J Fracture **90**(3) 275-285 (1998), 9A916
Phenomenological model of fatigue macrocrack initiation near stress concentrators, Fatigue Fracture Eng Mat Struct **22**(2) 161-172 (1999), 10A823
Statistical models of brittle deformation - Part I: Introduction, Int J Plasticity **15**(4) 401-426 (1999), 10A870
Statistical models of brittle deformation - Part II: Computer simulations, Int J Plasticity **15**(4) 427-456 (1999), 10A871
Analysis of 2D finite solids with microcracks, Int J Solids Struct **36**(25) 3735-3753 (Sep 1999), 10A937
Constitutive theory for the damage of materials with dynamic micro void evolution processes, JSME Int J Ser A **41**(1) 66-78 (Jan 1998), 10A938
Equilibrium, stability and evolution of elastic plates under the combined effects of stress and surface diffusion, Quart J Mech Appl Math **52**(2) 283-309 (May 1999), 10A939
Modeling of crack surface interference under cyclic shear loads, Fatigue Fracture Eng Mat Struct **22**(3) 205-213 (Mar 1999), 11A745
Dynamic Monte Carlo microscopic damage model incorporating thermo-mechanical coupling in a unidirectional composite, Composites Sci Tech **59**(6) 947-955 (May 1999), 11A760
Micromechanical simulations of microstructure-sensitive Stage I fatigue crack growth, Fatigue Fracture Eng Mat Struct **22**(3) 215-223 (Mar 1999), 11A761
Microcrack description of creep damage in crystalline solids with different behavior in tension and compression, Int J Damage Mech **8**(3) 197-232 (Jul 1999), 12A844

276Y. Computational techniques

Numerical modeling of adiabatic shear band formation in a twisting test, Eng Trans **45**(3-4) 419-431 (1997), 1A22
Enhanced consolidation in brittle geomaterials susceptible to damage, Mech Cohesive-Frictional Mat **3**(3) 291-303 (Jul 1998), 1A33
Effect of cracks on the natural frequency of cantilevered plates: A Rayleigh-Ritz solution, Mech Struct Machines **26**(2) 131-143 (1998), 1A153
Applications of 2D elastoplastic stochastic FEM in the field of fracture mechanics, Int J Pressure Vessels Piping **75**(4) 281-286 (Apr 1998), 1A907
FEM-remeshing technique applied to crack growth problems, Comput Methods Appl Mech Eng **160**(1-2) 115-131 (Jul 1998), 1A908
Interaction between three line cracks in a sandwiched orthotropic layer, Appl Mech Eng **3**(2) 249-269 (1998), 1T909
Mixed mode fatigue growth of curved cracks emanating from fastener holes in aircraft lap joints, Comput Mech **21**(6) 477-482 (Jun 1998), 1A910
Modeling of laser thermal fracturing of hard rock, Eng Trans **45**(3-4) 447-461 (1997), 1A911
Numerical method with a posteriori error estimation for determining the path taken by a propagating crack, Comput Methods Appl Mech Eng **160**(3-4) 245-271 (Jul 1998), 1A912
Strain-based transient-gradient damage model for failure analyses, Comput Methods Appl Mech Eng **160**(1-2) 133-153 (Jul 1998), 1A913
Variational technique for BE analysis of 3D fracture mechanics weight functions: Static, Int J Numer Methods Eng **42**(8) 1409-1423 (Aug 1998), 1A914
Variational technique for BE analysis of 3D fracture mechanics weight functions: Dynamic, Int J Numer Methods Eng **42**(8) 1425-1439 (Aug 1998), 1A915
Effect of multiple cracks on the leak-before-break case of pipe, Int J Pressure Vessels Piping **75**(3) 249-254 (Mar 1998), 1A1022
Factors influencing the crack-system compliance of a piping system, Int J Pressure Vessels Piping **75**(2) 125-129 (Feb 1998), 1A1023
Leakage via a through-wall circumferential crack in a piping or tubing system under accident loading conditions, Int J Pressure Vessels Piping **75**(2) 121-124 (Feb 1998), 1A1024
Computational methods assuring nuclear power plant structural integrity and safety: An overview of the recent activities at VTT, Nucl Eng Des **183**(1-2) 41-51 (Jul 1998), 1A1467
Local approach and FEM in brittle fracture prediction, Comput Assisted Mech Eng Sci **5**(2) 193-198 (1998), 2A38
Plastic fracture mechanics analysis of small Case B fatigue cracks under multiaxial loading conditions, J Eng Gas Turbines Power **120**(4) 796-800 (Oct 1998), 2A870
Metal matrix composite damage and life prediction model, J Eng Gas Turbines Power **120**(4) 825-832 (Oct 1998), 2A879
Analysis of interfacial cracks in a TBC-superalloy system under thermomechanical loading, J Eng Gas Turbines Power **120**(4) 813-819 (Oct 1998), 2A887
Dynamic and static analysis of cracks using the hypersingular formulation of the BEM, Int J Numer Methods Eng **43**(2) 365-388 (Sep 1998), 2A888

Equivalence for two interacting parallel cracks, J Pressure Vessel Tech **120**(4) 424-430 (Nov 1998), 2A889
Finite element methodology for path integrals in fracture mechanics, Int J Numer Methods Eng **43**(1) 69-91 (Sep 1998), 2A890
Near crack line elastic-plastic analysis for a finite plate loaded by two pairs of antiplane point forces, Appl Math Mech **19**(6) 547-553 (Jun 1998), 2A891
Stress intensity factors computations using the singularity subtraction technique incorporated with the Tau method, Comput Assisted Mech Eng Sci **5**(1) 55-64 (1998), 2A892
Crack-opening-area analyses for circumferential through-wall cracks in pipes - Part I: Analytical models, Int J Pressure Vessels Piping **75**(5) 357-373 (Apr 1998), 2A997
Crack-opening-area analyses for circumferentially through-wall cracks in pipes - Part II: Model validations, Int J Pressure Vessels Piping **75**(5) 375-396 (Apr 1998), 2A998
Crack-opening-area analyses for circumferential through-wall cracks in pipes - Part III: Off-center cracks, restraint of bending, thickness transition and weld residual stresses, Int J Pressure Vessels Piping **75**(5) 397-415 (Apr 1998), 2A999
Computational modeling of steady crack extension in poroelastic media, Int J Solids Struct **35**(34-35) 4869-4885 (Dec 1998), 3A7
Derivation of exact expressions for 2D singular and finite-part integrals applicable in solid mechanics, Eng Anal Boundary Elements **22**(2) 125-132 (Sep 1998), 3A504
Quick computation of factor of safety for biaxial stress states, J Mech Des **120**(4) 721-726 (Dec 1998), 3A545
Numerical modeling of 2D smooth crack growth, Int J Fracture **87**(4) 389-405 (1997), 3A740
Numerical simulation of high-speed impacts in brittle materials using the particle methods (Japanese), J Soc Mat Sci Japan **47**(8) 825-829 (Aug 1998), 3A832
Application of constraint based fracture mechanics to engineering structures, Nucl Eng Des **184**(1) 77-88 (Aug 1998), 3A839
Development of residual strength evaluation tool based on stress-strain approximation, Int J Fracture **88**(2) 129-152 (1997), 3A840
Effect of temperature on dislocation emission from crack tip for BCC metal Mo, Acta Mech Solida Sinica **11**(3) 189-198 (1998), 3A841
Element free Galerkin study of steady quasi-static crack growth in plane strain tension in elastic-plastic materials, Comput Mech **22**(3) 255-265 (Sep 1998), 3A842
Fracture parameter for welded structures with residual stresses, Comput Mech **22**(3) 281-288 (Sep 1998), 3A843
Line-spring FE for fully plastic crack growth - I: Formulation and 1D results, Int J Solids Struct **35**(36) 5115-5138 (Dec 1998), 3A844
Line-spring FE for fully plastic crack growth - II: Surface-cracked plates and pipes, Int J Solids Struct **35**(36) 5139-5158 (Dec 1998), 3A845
Method of constructing a weight function for a body with a crack, J Appl Math Mech **62**(2) 303-307 (1998), 3A846
Modeling of crack closure for FE analysis of structural concrete, Comput Struct **69**(3) 383-398 (Nov 1998), 3A847
Numerical evaluation of the rotating crack model, Comput Struct **69**(4) 487-497 (Nov 1998), 3A848
Numerical solution technique for a class of integrodifferential equations in elastodynamic crack propagation problems, Comput Methods Appl Mech Eng **167**(1-4) 19-48 (Aug 1998), 3A849
Effect of temperature on the strength and failure mechanisms of a woven carbon-polyimide laminate under compression, Mech Mat **30**(3) 165-180 (Nov 1998), 4A818
Applications of multi-region Trefftz-collocation to fracture mechanics, Eng Anal Boundary Elements **22**(3) 251-256 (Oct 1998), 4A846
Linearization of the microplane model, Mech Cohesive-Frictional Mat **3**(4) 343-364 (Oct 1998), 4A847
Neural crack identification in steady state elastodynamics, Comput Methods Appl Mech Eng **165**(1-4) 129-146 (Nov 1998), 4A848
Performance of traction-singular BEs in analyzing fracture process in transient quasistatic environments, Comput Methods Appl Mech Eng **163**(1-4) 261-270 (Sep 1998), 4A849
T-stresses in rectangular plates and circular disks, Eng Fracture Mech **60**(5-6) 631-652 (Jul 1998), 4A850
Symmetric Galerkin BEMs, Appl Mech Rev **51**(11) 669-704 (Nov 1998), 5A55
Alternating method based on the VNA solution for analysis of damaged solid containing arbitrarily distributed elliptical microcracks, Int J Fracture **89**(2) 159-192 (1998), 5A737
Eigenfunction expansion for penny-shaped and circumferential cracks, Int J Fracture **89**(3) 205-222 (1998), 5A738
Simulating 3D stress intensity factors by the least-squares method, Int J Numer Methods Eng **43**(8) 1437-1451 (Dec 1998), 5A739
Two-level FE study of axisymmetric cracks, Int J Fracture **89**(2) 193-203 (1998), 5A740
Weibull stress solutions for 2D cracks in elastic and elastic-plastic materials, Int J Fracture **89**(3) 245-268 (1998), 5A741
Wide range weight function for a single edge cracked geometry with clamped ends, Int J Fracture **89**(1) 1-18 (1998), 5A742
Optimal design of quasi-brittle elastic bodies with cracks, Mech Struct Machines **26**(4) 365-376 (1998), 5A768
Optimal estimation of gradient damage parameters from localization phenomena in quasi-brittle materials, Mech Cohesive-Frictional Mat **4**(1) 1-16 (Jan 1999), 6A38
Longitudinal vibration of a bar with a breathing crack, Eng Fracture Mech **61**(5-6) 503-518 (Nov-Dec 1998), 6A146
Longitudinal vibration of a continuous cracked bar, Eng Fracture Mech **61**(5-6) 593-606 (Nov-Dec 1998), 6A147
Evaluation of fracture mechanics quarter-point displacement techniques used for computing stress intensity factors, Eng Struct **21**(5) 406-415 (May 1999), 6A892
Combined single and smeared crack model in combined finite-discrete element analysis, Int J Numer Methods Eng **44**(1) 41-57 (Jan 1999), 6A960
Computational modeling of gradient-enhanced damage in quasi-brittle materials, Mech Cohesive-Frictional Mat **4**(1) 17-36 (Jan 1999), 6A961
Crack modeling in FE analysis of circular tubular joints, Eng Fracture Mech **61**(5-6) 537-553 (Nov-Dec 1998), 6A962
Cracks in 3D: A dynamic dual BE analysis, Comput Methods Appl Mech Eng **167**(1-2) 139-151 (Dec 1998), 6A963
Efficient BEM to calculate weight functions and its application to bridging in an orthotropic medium, Comput Mech **22**(5) 418-424 (Dec 1998), 6A964
Efficient procedure for modeling limited plastic flow, Proc Inst Mech Eng C **212**(C8) 731-740 (1998), 6A965
Engineering flaw assessment method, Fatigue Fracture Eng Mat Struct **21**(10) 1203-1213 (1998), 6A966
Engineering treatment model for pure power law and non-power law hardening materials, Fatigue Fracture Eng Mat Struct **21**(10) 1233-1248 (1998), 6A967
ETM method for assessing the significance of crack-like defects in engineering structures, Fatigue Fracture Eng Mat Struct **21**(10) 1215-1231 (1998), 6A968
Evaluations of hypersingular integrals using Gaussian quadrature, Int J Numer Methods Eng **44**(2) 205-214 (Jan 1999), 6A969
Formulation of a super-element for the dynamic problem of a cracked plate, Commun Numer Methods Eng **14**(12) 1143-1154 (Dec 1998), 6A970
Fracture analyses using spring networks with random geometry, Eng Fracture Mech **61**(5-6) 569-591 (Nov-Dec 1998), 6A971
Limit load solution for cracked tubular T-joints loaded in tension, Fatigue Fracture Eng Mat Struct **21**(10) 1249-1257 (1998), 6A972
Simulation of fracture in a quasi-brittle material in direct tensile: A lattice model, Eng Fracture Mech **61**(3-4) 445-460 (Sep-Nov 1998), 6A973
Thermal model for cracked structures repaired with composite patches, AIAA J **36**(12) 2229-2235 (Dec 1998), 6A974
Use of constraint parameter A_2 determined from displacement in predicting fracture event, Eng Fracture Mech **61**(5-6) 487-502 (Nov-Dec 1998), 6A975
Fundamental solutions for the plane problem in piezoelectric media with an elliptic hole or a crack, Appl Math Mech **19**(11) 1043-1052 (Nov 1998), 7A615
Combination of fracture and damage mechanics for numerical failure analysis, Int J Solids Struct **36**(8) 1169-1191 (Mar 1999), 7A724
Analytical formulas for a 2D crack tip singular BE for rectilinear cracks and crack growth analysis, Eng Anal Boundary Elements **23**(1) 35-49 (Jan 1999), 7A761
Boundary element method analysis of fracture mechanics in 2D anisotropic piezoelectric solids, Eng Anal Boundary Elements **23**(1) 67-76 (Jan 1999), 7A762
Element free Galerkin method for dynamic propagation of arbitrary 3D cracks, Int J Numer Methods Eng **44**(6) 767-800 (Feb 1999), 7A763
Estimation accuracy of maximum crack length by extreme value analysis: Factor of difference in estimation accuracy between theoretical analysis and Monte Carlo simulation (Japanese), J Soc Mat Sci Japan **47**(12) 1227-1232 (Dec 1998), 7A764
Evaluation of stress intensity factors in plate bending problems using the dual BEM, Eng Anal Boundary Elements **23**(1) 3-19 (Jan 1999), 7A765
Fast multipole boundary integral equation method for crack problems in 3D, Eng Anal Boundary Elements **23**(1) 97-105 (Jan 1999), 7A766
Fracture analysis of delamination failure in angle-ply elastomer composites, Polymers and Polymer Composites **6**(7) 439-445 (1998), 7A767
Fracture analysis on the metal-lined hoop-wrapped cylinders with internal axial cracks, Int J Pressure Vessels Piping **75**(15) 1047-1053 (Dec 1998), 7A768
Further studies into interacting 3D cracks, Comput Struct **70**(5) 583-597 (Mar 1999), 7A769
Hyper-singular numerical Green's function generation for BEM applied to dynamic SIF problems, Eng Anal Boundary Elements **23**(1) 77-87 (Jan 1999), 7A770
Inverse scattering for elastic plane cracks, Inverse Prob **15**(1) 91-97 (Feb 1999), 7A771
Numerical evaluation of stress intensity factors for an interface crack of a general shape, Int J Numer Methods Eng **44**(5) 729-741 (Feb 1999), 7A772
Reciprocity principle and crack identification, Inverse Prob **15**(1) 59-65 (Feb 1999), 7A773
Recursive distribution method for probabilistic structural integrity analysis, Comput Methods Appl Mech Eng **168**(1-4) 135-154 (Jan 1999), 7A774
Research of influence coefficients of size on a plate with two parallel cracks, Commun Numer Methods Eng **15**(1) 65-73 (Jan 1999), 7A775
Simulation of contact-induced fracture, Eng Anal Boundary Elements **23**(1) 59-66 (Jan 1999), 7A776
Stochastic evolution of microcracks in continua, Comput Methods Appl Mech Eng **168**(1-4) 155-171 (Jan 1999), 7A777
Damage and Fracture Mechanics: Computer Aided Assessment and Control (Comput Mech, Billerica MA, 1998) 8N17
Green's function for general cracked ring problems, Int J Pressure Vessels Piping **76**(2) 117-126 (Feb 1999), 8A519
Numerical analysis of cracked inelastic shells with large displacements or mixed mode loading, Int J Solids Struct **36**(15) 2259-2283 (May 1999), 8A630
Continuum modeling and numerical simulation of material damage at finite strains, Arch Comput Methods Eng **5**(4) 311-384 (1998), 8A763
Closed-form integrals for constant and linear elements in the eigenstrain method, J Appl Mech **66**(1) 268-272 (Mar 1999), 8T810
Evaluation of J integrals and stress intensity factors in a 2D quadratic boundary contour method, Commun Numer Methods Eng **15**(2) 91-100 (Feb 1999), 8A811
Finite-deformation irreversible cohesive elements for 3D crack-propagation analysis, Int J Numer Methods Eng **44**(9) 1267-1282 (Mar 1999), 8A812
Numerical schemes for defining reference stress in components containing defects, Int J Pressure Vessels Piping **76**(2) 127-131 (Feb 1999), 8A813
Computational Fracture Mechanics in Concrete Technology (Comput Mech, UK, 1998) 9N25
New singular BE for crack problems - Application to bolted joints, Eng Fracture Mech **62**(6) 497-510 (Apr 1999), 9A56
Variational approach to analyzing laminates with cracks and viscoplasticity: The model and its validation, J Composite Mat **33**(5) 443-479 (1999), 9A625
Computational simulation of fatigue crack growth and demonstration of leak before break criterion, Int J Pressure Vessels Piping **76**(5) 331-338 (Apr 1999), 9A798
Direct simulation of fatigue crack growth for arbitrary-shaped defects in pressure vessels, Proc Inst Mech Eng C **213**(C2) 175-189 (1999), 9A799
State-space model of fatigue crack growth, Int J Fracture **90**(3) 235-249 (1998), 9A801
Analysis of chipping in brittle materials, Int J Fracture **90**(4) 287-298 (1998), 9A917
Asymptotic analysis for a crack on interface of damaged materials, Int J Fracture **91**(1) 47-60 (1998), 9A918
Calculation of elastic T-stresses near interface crack tip under in-plane and anti-plane loading, Int J Fracture **91**(2) 179-195 (1998), 9A919
Calibration of fracture mechanics parameters and J-R curve determination in polyethylene side-grooved arc-shaped specimens, Eng Fracture Mech **62**(2-3) 231-248 (Jan-Feb 1999), 9A920
Damage tolerance of large shell structures, J Pressure Vessel Tech **121**(2) 188-195 (May 1999), 9A921
Determination of T-stress from FE analysis for mode I and mixed mode I-II loading, Int J Fracture **91**(3) 283-298 (1998), 9A922
Effect of crack location and maximum stress position on the failure of a cracked piping system, Nucl Eng Des **187**(2) 165-173 (Feb 1999), 9A923
Estimation of the η factors for mixed-mode cracks in compact tension specimens, J Pressure Vessel Tech **121**(2) 203-208 (May 1999), 9A924
Exact solution of crack problems in piezoelectric materials, Appl Math Mech **20**(1) 51-58 (Jan 1999), 9A925
Fracture behavior of the aluminum lined hoop-wrapped cylinders with internal axial cracks, Int J Pressure Vessels Piping **76**(4) 251-257 (Apr 1999), 9A926
Hierarchical crack identification from electric potential measurements using pattern recognition approach and optimization technique, Inverse Prob Eng **7**(1) 43-63 (1999), 9A927
Hypersingular boundary integral equation for a class of antiplane multiple crack problems for inhomogeneous elastic materials, Commun Numer Methods Eng **15**(3) 183-191 (Mar 1999), 9A928
Modeling of a patch repair to a thin cracked sheet, Eng Fracture Mech **62**(2-3) 267-289 (Jan-Feb 1999), 9A929
Nonlinear FE eigenanalysis of singular plane stress fields in bimaterial wedges including complex eigenvalues, Int J Fracture **90**(3) 175-207 (1998), 9A930
Numerical investigation on stable crack growth in plane stress, Int J Fracture **91**(2) 117-130 (1998), 9A931
Singularity analysis and boundary integral equation method for frictional crack problems in 2D elasticity, Int J Fracture **90**(3) 251-274 (1998), 9A932
Three-dimensional analysis of a semi-elliptical crack emanating from an erosion at the bore of an autofrettaged pressurized cylinder, J Pressure Vessel Tech **121**(2) 209-215 (May 1999), 9A933
Computation of eddy current probe response due to a long crack based on a vector potential integral formlulation, Int J Appl Electromagnetics Mech **10**(1) 77-89 (Feb 1999), 9A956
Wave Propagation in Elastic Solids with Cracks (Comput Mech, Billerica MA, 1998) 10R7
Generalized kinetic model of three component mixture of cracks, Acta Geophys Polonica **46**(4) 375-388 (1998), 10A822
Analytical and numerical study of failure waves, Int J Solids Struct **36**(26) 3977-3991 (Sep 1999), 10A926
Analysis of crack problems with non-local elasticity, Appl Math Mech **20**(2) 143-153 (Feb 1999), 10A940
Analytical solution for an arbitrarily oriented void-crack and fracture of piezoceramics, Acta Mat **47**(6) 1735-1747 (Apr 1999), 10A941
Three-dimensional model of wing crack growth and interaction, Eng Fracture Mech **63**(1) 81-110 (May 1999), 11A737
Analysis of ductile fracture in damaged pipelines by a geometric parameter method, Eng Struct **21**(10) 924-936 (Oct 1999), 11A818
Conducting crack propagating in elastic dielectric influenced by strong electromagnetic field, J Tech Phys **39**(3-4) 569-581 (1998), 11A819
Development of a Java engineering application for higher-order asymptotic analysis of crack-tip fields, Adv Eng Software **30**(7) 469-477 (Jul 1999), 11A820
Dugdale model solutions for a penny-shape crack in 3D transversely isotropic piezoelectric media by boundary-integral equation method, Eng Anal Boundary Elements **23**(7) 573-576 (Jul 1999), 11A821
Elastic crack growth in FEs with minimal remeshing, Int J Numer Methods Eng **45**(5) 601-620 (Jun 1999), 11A822
Hypersingular boundary integral equation for antiplane crack problems for a class of inhomogeneous anisotropic elastic materials, Eng Anal Boundary Elements **23**(7) 567-572 (Jul 1999), 11A823
Near threshold fatigue curve based on the dislocation free zone model of fracture, Int J Eng Sci **37**(10) 1289-1298 (Aug 1999), 11A824
Numerical solution for multiple crack problems of torsion bar, Comput Methods Appl Mech Eng **174**(1-2) 203-209 (May 1999), 11A825
Three-dimensional dual BEM formulation for the analysis of crack growth, Comput Mech **23**(3) 250-257 (Apr 1999), 11A826
Modeling of transverse vibration of beam of linearly variable depth with edge crack, Eng Fracture Mech **63**(4) 425-445 (Jul 1999), 12A137
Effect of characteristic crack sizes on the leak-before-break case of pressure vessels and piping with multiple cracks, Int J Pressure Vessels Piping **76**(7) 435-439 (Jun 1999), 12A845
Nonlinear surface crack analysis by 3D BE with mixed boundary conditions, Eng Fracture Mech **63**(4) 413-424 (Jul 1999), 12A846
Numerical evaluation of the stress distribution ahead of a crack tip for a finite-width center-cracked specimen loaded by stresses along a portion of the crack, Fatigue Fracture Eng Mat Struct **22**(5) 453-456 (1999), 12A847
Spectral relation for Chebyshev-Laguerre polynomials and its application to dynamic problems of fracture mechanics, J Appl Math Mech **63**(1) 63-71 (1999), 12A848
Strength and survivability analysis in engineering safety for structures damaged by cracks, Int J Pressure Vessels Piping **76**(7) 441-444 (Jun 1999), 12A849

276Z. Experimental techniques

Inverse emergent plane crack problem, Math Methods Appl Sci **21**(10) 895-906 (Jul 1998), 1A916

NDE of a 3D surface crack using magnetic field induced by DC current flow, NDT&E Int **31**(5) 325-328 (Oct 1998), 1A935
Pretest fracture assessment of the NESC-1 spinning cylinder under a PTS transient, Int J Pressure Vessels Piping **75**(3) 203-212 (Mar 1998), 1A1469
Finite-element analysis for remote field eddy current responses from near- and farside cracks, Res Nondestructive Eval **10**(3) 163-169 (1998), 2A36
Continuous SEM observations of creep-fatigue damage processes, Fatigue Fracture Eng Mat Struct **21**(7) 873-884 (1998), 2A851
Detecting impact damage in a composite material with an optical fiber vibration sensor system, Smart Mat Struct **7**(4) 543-549 (Aug 1998), 2A858
Adiabatic shear localization in the impact of edge-notched specimens, Exp Mech **38**(3) 196-203 (Sep 1998), 2A893
Sensitive ultrasonic approach to NDE of tightly closed small cracks, J Pressure Vessel Tech **120**(4) 384-392 (Nov 1998), 2A917
Nondestructive evaluation of a 3D surface crack using closely coupled probes for DCPD technique, J Pressure Vessel Tech **120**(4) 374-378 (Nov 1998), 2A919
Influence of intermediate loading rates and temperature on the fracture toughness of ordinary carbon-manganese structural steels, Fatigue Fracture Eng Mat Struct **21**(7) 805-817 (1998), 2A1325
Effect of reinforcing tabs on the mode I delamination toughness of stitched CFRPs, J Composite Mat **32**(22) 2016-2041 (1998), 4A851
Experimental cum numerical technique to determine dynamic interlaminar fracture toughness, Eng Fracture Mech **60**(5-6) 583-596 (Jul 1998), 4A852
Investigation of mode III fracture toughness using an anti-clastic plate bending method, Eng Fracture Mech **60**(5-6) 597-603 (Jul 1998), 4A853
Mechanical properties in tension of mechanically attrited nanocrystalline iron by the use of the miniaturized disk bend test, Acta Mat **46**(18) 6459-6473 (Nov 1998), 5A460
Residual stress measurement by successive extension of a slot: The crack compliance method, Appl Mech Rev **52**(2) 75-96 (Feb 1999), 5A743
Toughness losses in low alloy steels at high temperatures: An appraisal of certain factors concerning the small punch test, Int J Pressure Vessels Piping **75**(11) 791-804 (Sep 1998), 5A744
Effect of displacement rates on EAC of AISI 4340 steel, Fatigue Fracture Eng Mat Struct **21**(10) 1279-1286 (1998), 6A865
R-curve testing and its relevance to structural assessment, Fatigue Fracture Eng Mat Struct **21**(10) 1259-1271 (1998), 6A976
Rapid prediction of eddy current testing signals using A - ϕ method and database, NDT&E Int **32**(1) 29-36 (Jan 1999), 6A1003
Fracture toughness of low carbon steels and their weldments, Int J Pressure Vessels Piping **75**(13) 945-950 (Nov 1998), 6A1117
Identification of 2D cracks by elastic boundary measurements, Inverse Prob **15**(1) 67-77 (Feb 1999), 7A778
Investigation on the possibility of using the microshear test as a surveillance method to estimate the mechanical properties and fracture roughness of nuclear pressure vessel steel, A508CL3, and its joint welded by narrow-gap submerged-arc welding, Int J Pressure Vessels Piping **76**(1) 35-41 (Jan 1999), 7A1585
Direct fractal measurement of fracture surfaces, Int J Solids Struct **36**(20) 3073-3084 (Jul 1999), 8A814
Dynamic analysis of instrumented CHARPY impact tests using specimen deflection measurement and mass-spring models, Int J Fracture **91**(4) 299-309 (1998), 9A934
Effects of crack starter bead preparation in drop-weight test on nil-ductility transition temperature, J Pressure Vessel Tech **121**(2) 196-202 (May 1999), 9A935
Evaluation of microcrack resistance curves by in-situ measurements, Nucl Eng Des **187**(3) 315-325 (Mar 1999), 9A936
Study of the fracture behavior of unidirectional fiber-reinforced composites using Coherent Gradient Sensing interferometry, Int J Fracture **90**(4) 355-382 (1998), 9A937
Effects of weld strength undermatch on fracture toughness of HAZ notched weldments in a HSLA steel, Int J Fracture **91**(4) 349-358 (1998), 9A1091
Experimental methods of determination of short and long-term mechanical strength of ceramic insulators, Eng Trans **46**(1) 131-139 (1998), 10A942
New energy model of fatigue damage accumulation and its verification for 45-steel, J Theor Appl Mech **37**(2) 223-240 (1999), 10A943
Application of focused ion beam microscopy to the study of crack profiles, Fatigue Fracture Eng Mat Struct **22**(3) 251-256 (1999), 11A827
Experimental method to measure the mode-III interlaminar fracture toughness of composite laminates, Composites Sci Tech **59**(7) 1015-1021 (May-Jun 1999), 11A828
Improved photo-elastic technique for determining the mixed-mode stress-intensity factors for interfacial cracks in a bimaterial, Composites Sci Tech **59**(7) 1033-1039 (May-Jun 1999), 11A829
ISO test method to determine sustained-load-cracking resistance of aluminium cylinders, J Pressure Vessel Tech **121**(3) 311-314 (Aug 1999), 11A830
Modification of the mixed-mode bending test apparatus, Composites Part A Appl Sci and Manuf **30A**(7) 871-877 (1999), 11A831
Prediction of failure behavior of a welded pressure vessel containing flaws during a hydrogen-charged burst test, J Pressure Vessel Tech **121**(3) 246-251 (Aug 1999), 11A960
Fracture assessment of shallow-flaw cruciform beams tested under uniaxial and biaxial loading conditions, Nucl Eng Des **188**(3) 259-288 (May 1999), 11A1614
Analytical and numerical calculation of the energy release rate for the microbond-test, J Adhesion **70**(1-2) 33-56 (May 1999), 12A850
Back-faced strain compliance expression for the compact tension specimen, J Test Eval **27**(2) 167-170 (Mar 1999), 12A851
Determination of J_{IC} using the stretch zone width method, J Test Eval **27**(3) 211-218 (May 1999), 12A852
Influence of irregularities in the crack shape on the crack extension measurement by means of the direct-current-potential-drop method, J Test Eval **27**(1) 42-46 (Jan 1999), 12A853

280. MATERIALS TESTING AND STRESS ANALYSIS

280B. Single and combined loadings

Mechanical Behavior of Materials (Prentice Hall, Upper Saddle River, NJ, 1999) 1R10
Distribution of support reaction against a steel girder on a launching shoe, J Construct Steel Res **47**(3) 245-270 (Sep 1998), 1A917
Uniaxial tensile test and wear in metals, J Mat Processing Tech **79**(1-3) 113-124 (Jul 1998), 1A918
Existing rules and new tests for stud shear connectors in troughs of profiled sheeting, Proc Inst Civil Eng Struct Build **128**(3) 244-251 (Aug 1998), 2A970
Experimental analysis of arcylic models, Strain **34**(3) 95-98 (Aug 1998), 3A634
PROBAMAT - 21st Century: Probabilities and Materials (Kluwer, Netherlands, 1998) 4N17
Physical Testing of Textiles (CRC Press, Boca Raton FL, 1998) 5N27
Residual stress measurement by successive extension of a slot: The crack compliance method, Appl Mech Rev **52**(2) 75-96 (Feb 1999), 5A743
Behavior of ferrocement confined reinforced concrete under axial compression, Mat Struct **31**(213) 628-633 (Nov 1998), 5A781
Effect of ultimate-to-yield ratio on the bearing strength of bolted connections, J Construct Steel Res **49**(3) 255-269 (Mar 1999), 7A779
Tension plane behavior in single-row bolted connections subject to block shear, J Construct Steel Res **49**(3) 225-239 (Mar 1999), 7A780
Development of a multiple linear regression model for predicting the 28-day compressive strength of Portland pozzolan cement, Mat Struct **32**(216) 98-102 (Mar 1999), 8A571
Manual on Experimental Methods of Mechanical Testing of Composites, Second Edition (Fairmont Press, Lilburn GA, 1998) 9N29
Compressive failure of concrete and rock, Heron **43**(3) 127-180 (1998), 9A938
Study of abrasive waterjet cutting of metallic coated sheet steels, Int J Machine Tools Manuf **39**(6) 855-870 (Jun 1999), 9A939
Cyclic yield surface of some engineering materials under complex stress conditions, Arch Mech **50**(5) 877-905 (1998), 10A944
Influence of the deformation temperature in a tensile test on dislocation substructure of nickel-base superalloys (Polish), Arch Naukio Mat **19**(3) 179-197 (1998), 12A854
New gripping technique for small metal specimens, J Test Eval **27**(3) 243-246 (May 1999), 12A855
Role of bearing plates in the five-point bending tests of structural-size lumber, J Test Eval **27**(3) 183-190 (May 1999), 12A856
Direct measurement of longitudinal strains and stresses within single lap shear adhesive joints using neutron diffraction, J Adhesion **70**(1-2) 1-11 (May 1999), 12A1018

280G. Determination of elastic constants

Estimation of the elastic constants of a cylinder with a length equal to its diameter, J Acoust Soc Am **104**(1) 176-180 (Jul 1998), 1A919
New analytical procedure to determine stress-strain curve from spherical indentation data, Int J Solids Struct **35**(33) 4411-4426 (Nov 1998), 1A920
PROBAMAT - 21st Century: Probabilities and Materials (Kluwer, Netherlands, 1998) 4N17
Physical Testing of Textiles (CRC Press, Boca Raton FL, 1998) 5N27
Elastic constants of the lithium tantalate crystal in the hypersonic range, J Acoust Soc Am **104**(6) 3356-3357 (Dec 1998), 5A745
Fracture and shear properties of concrete construction joints from core samples, Mat Struct **31**(213) 595-601 (Nov 1998), 5A746
Identification of elastic properties of composites by method of planning of experiments, Composite Struct **42**(3) 257-263 (Jul 1998), 5A747
Nondestructive determination of tensile properties and fracture toughness of cold worked A36 steel, Int J Pressure Vessels Piping **75**(11) 831-840 (Sep 1998), 5A748
Microindentation tests of single crystal silicon: Microdeformation behavior and measurement of ductile to brittle transition, J Japan Soc Precision Eng **64**(11) 1643-1647 (Nov 1998), 6A977
Porous, Cellular, and Microcellular Materials - 1998 (ASME, New York, 1998) 7N21
Prediction of longitudinal disturbances in a multimode cylindrical waveguide, Exp Mech **39**(1) 36-42 (Mar 1999), 8A224
Manual on Experimental Methods of Mechanical Testing of Composites, Second Edition (Fairmont Press, Lilburn GA, 1998) 9N29
Comparison of the mechanical properties of fire-resistant and S275 structural steels, J Construct Steel Res **50**(3) 223-233 (Jun 1999), 9A940
Elastic constants of β-HgS, Acta Phys Polonica A **94**(3) 487-491 (Sep 1998), 9A941
Effect of secondary phase on elastic constants for stress measurement of multi-phase materials by X-ray and neutron diffraction methods, JSME Int J Ser A **41**(2) 280-286 (Apr 1998), 10A945
Effective elastic properties of heavily faulted structures, Geophys **64**(2) 479-485 (Mar-Apr 1999), 10A946
Measurement of anisotropic elastic moduli in local area by acoustic microscope - The case of cubic single crystal, JSME Int J Ser A **41**(3) 430-438 (Jul 1998), 10A947
Application of genetic algorithms for the identification of elastic constants of composite materials from dynamic tests, Int J Numer Methods Eng **45**(7) 891-900 (Jul 1999), 12A857
Efficient algorithm to estimate material parameters of biphasic mixtures, Int J Numer Methods Eng **45**(9) 1315-1331 (Jul 1999), 12A858
Evaluation of wood poles using a free vibration technique, J Test Eval **27**(3) 191-195 (May 1999), 12A859
Probabilistic model for the analysis of dynamic cone penetrometer test values in pavement structure evaluation, J Test Eval **27**(1) 7-14 (Jan 1999), 12A860
Ultrasonic measurement of the dynamic elastic moduli of small metal samples, J Test Eval **27**(2) 164-166 (Mar 1999), 12A861

280H. Repeated loading (fatigue)

Effect of embedded optical fibers on the fatigue behavior of composite plates, Composite Struct **41**(2) 113-120 (Feb 1998), 2A671
Cyclic response of bridge knee joints with circular columns, J Earthquake Eng **2**(3) 357-390 (Jul 1998), 2A894
High cycle fatigue damage evolution in unidirectional metal matrix composites using a micromechanical approach, Mech Mat **30**(2) 91-110 (Oct 1998), 3A850
Nonlinear analysis of undrained cyclic strength of soft marine clay, Ocean Eng **26**(3) 241-253 (Mar 1999), 3T851
Fatigue life prediction of a railway bogie under dynamic loads through simulation, Vehicle Syst Dyn **29**(6) 385-402 (Jun 1998), 4A429
Measurement of uniform and localized heat dissipation induced by cyclic loading, Exp Mech **38**(4) 289-294 (Dec 1998), 5A749
Increasing the usual life of welded joints operating under low cycle loads, Russian Ultrasonics **28**(5) 198-203 (1998), 9T942
Cyclic stress-strain data analysis under biaxial tensile stress state, Exp Mech **39**(2) 92-102 (Jun 1999), 11A832

280I. Dynamic loading (impact)

Numerical simulations of impacts using a discrete element method, Mech Cohesive-Frictional Mat **3**(3) 257-276 (Jul 1998), 1A35
Modeling interply debonding in laminated architectural glass subject to low velocity impact, Struct Eng and Mech **6**(5) 485-496 (Jul 1998), 1A641
Effects of stacking sequence on the impact resistance in composite laminates - Part 2: Prediction method, Composite Struct **41**(2) 177-186 (Feb 1998), 2A672
Dynamic characterization of compliant materials using an all-polymeric split Hopkinson bar, Exp Mech **38**(3) 204-210 (Sep 1998), 2A895
Study on testing techniques for concrete-like materials under compressive impact loading, Cement & Concrete Composites **20**(4) 293-299 (1998), 2A896
Penetration energy of sandwich panel elements under static and dynamic loading - Part I, Composite Struct **42**(2) 119-134 (Jun 1998), 3A626
Penetration energy of sandwich panel elements under static and dynamic loading - Part II, Composite Struct **42**(2) 135-152 (Jun 1998), 3A627
Deformation and perforation of spherical shells by normal impact of blunt-ended projectiles, Mech Struct Machines **26**(3) 239-255 (1998), 3T852
New tools for structural testing: Piezoelectric impact hammers and acceleration rate sensors, J Guidance Control Dyn **21**(5) 692-697 (Sep-Oct 1998), 3A853
Note on data processing in the split Hopkinson pressure bar tests, Exp Tech **22**(5) 21-24 (Sep-Oct 1998), 3A854
Suggestion of a new dimensionless number for dynamic plastic response of beams and plates, Arch Appl Mech **68**(7-8) 524-538 (Sep 1998), 3A855
Experiences during development of a dynamic crash response automobile model, Finite Elements Anal Des **30**(4) 279-295 (Oct 1998), 4A854
Crushing behavior of aluminium honeycombs under impact loading, Int J Impact Eng **21**(10) 827-836 (Nov 1998), 5A221
Impact performance of pultruded beams for highway safety applications, Composite Struct **42**(3) 231-237 (Jul 1998), 5A526
Structural behavior of reinforced concrete frame-wall components, Mat Struct **31**(213) 609-615 (Nov 1998), 5A792
New test method to evaluate the impact behavior of biaxially confined concrete, Mat Struct **31**(214) 669-675 (Dec 1998), 6A589
Characterization of impact in composite plates, Composite Struct **43**(1) 15-24 (Sep 1998), 6A612
Determining effective contact stiffness between striker and composite shell, Composite Struct **43**(2) 137-145 (Oct 1998), 6A615
Effect of impact damage on the capacity of tubular steel members of offshore structures, Marine Struct **11**(4-5) 141-157 (May-Jun 1998), 6A1060
Calculation of the deep bending collapse response for complex thin-walled columns - I: Pre-collapse and collapse phases, Thin-Walled Struct **33**(3) 155-176 (Mar 1999), 8A543
Calculation of the deep bending collapse response for complex thin-walled columns - II: Post-collapse phase, Thin-Walled Struct **33**(3) 177-210 (Mar 1999), 8A544
Low velocity impact damage characteristics of Z-fiber reinforced sandwich panels - An experimental study, Composite Struct **43**(4) 275-288 (Dec 1998), 8A815
Response of composite beam under low-velocity impact of multiple masses, Composite Struct **44**(2-3) 205-220 (Feb-Mar 1999), 9A943
Direct evaluation of strain and strain distribution using grid method during shear deformation of metal matrix composites, JSME Int J Ser A **41**(4) 569-575 (Oct 1998), 10A626
Antiplane problems for anisotropic layered media with tin elastic inclusions under concentrated forces and screw dislocations, J Theor Appl Mech **37**(1) 47-63 (1999), 10A948
Evaluation of impact shear strength of adhesive joints with the split Hopkinson bar, JSME Int J Ser A **41**(4) 503-509 (Oct 1998), 10A949
Impact mechanics in ship collisions, Marine Struct **11**(10) 429-449 (Dec 1998), 10A950
Impact damage prediction and failure analysis of heavily loaded, blade-stiffened composite wing panels, Composite Struct **45**(2) 81-103 (Jun 1999), 11A541
Split Hopkinson bar technique for low-impedance materials, Exp Mech **39**(2) 81-85 (Jun 1999), 11A833
Study of the mechanical properties of plain concrete under dynamic loading, Exp Mech **39**(2) 137-141 (Jun 1999), 11A834
Simple catapult system for studying the small projectile impact resistance of various glass laminates, J Test Eval **27**(3) 177-182 (May 1999), 12A204

280J. Thermal loading

Environmental chamber for tensile testing coupon specimens in the presence of aggressive media at elevated temperatures and pressures, Exp Tech **22**(5) 13-16 (Sep-Oct 1998), 3A856
Finite element method for contact-impact, Finite Elements Anal Des **30**(4) 297-311 (Oct 1998), 4A521

Measurement of thermal expansion coefficients of composites using strain gages, Exp Mech **38**(4) 233-241 (Dec 1998), 5A750
Technique for measuring the dynamic behavior of materials at high temperatures, Int J Plasticity **14**(12) 1279-1292 (1998), 6A978
Comparison of the mechanical properties of fire-resistant and S275 structural steels, J Construct Steel Res **50**(3) 223-233 (Jun 1999), 9A940
Thermoelastic effect in austenitic steel referred to its hardening, J Theor Appl Mech **37**(2) 349-368 (1999), 10A951
Deterministic structural and fracture mechanics analyses of reactor pressure vessel for pressurized thermal shock, Struct Eng and Mech **8**(1) 103-118 (Jul 1999), 11A835
Model for the time response of solid-embedded thermocouples, Exp Mech **39**(2) 132-136 (Jun 1999), 11A836
Structure-property relationship of shape memory polyurethanes, Appl Mech Eng **4**(S) 435-439 (1999), 11T837
Positron annihilation in deformed and hydrogenated Pd-23% at Cu alloy, Acta Phys Polonica A **95**(4) 637-640 (Apr 1999), 12A862

280K. Creep, relaxation and plastic flow testing

Determination of material constants in creep continuum damage constitutive equations, Strain **34**(3) 83-90 (Aug 1998), 3A857
600°C creep analysis of metals using the Moire interferometry method, J Mat Processing Tech **88**(1-3) 185-189 (Apr 1999), 11A479
Life prediction for alloy steel pipeline under creep conditions, Appl Mech Eng **4**(S) 75-78 (1999), 11T838
Longitudinal and transverse creep of plywood under tension in direction of main orthotropy axis, Appl Mech Eng **4**(S) 429-434 (1999), 11T839
Rheological properties of cement pastes containing fly ash, Appl Mech Eng **4**(S) 215-220 (1999), 11T840
Precision in the extrapolation of creep rupture data, J Test Eval **27**(3) 203-210 (May 1999), 12A799

280N. Hardness, abrasion, and wear testing

Correction of hardness value measured on a curved surface specimen, Int J Mech Sci **40**(12) 1191-1208 (Dec 1998), 1A921
Characteristics of residual plastic zone under static and dynamic Vickers indentations, Wear **224**(1) 56-67 (Jan 1999), 7A781
Selection of durable coatings for cryogenic engine technology, Mat Manuf Processes **14**(1) 107-121 (1999), 8T914
Internal strength analysis by drilling to the hardness profile determination of a superficially heat-treated steel (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 19-24 (Jan 1999), 9A944
Pulsed laser deposition of superhard nitride coatings, Mat Manuf Processes **14**(3) 397-411 (1999), 11T725
Dynamic indentation hardness and rate sensitivity in metals, J Eng Mat Tech **121**(3) 257-263 (Jul 1999), 12A863

280R. Optical nondestructive testing (NDT)

In-process automatic detection for cracks in dark PZT plates using diffusion of laser light (Japanese), J Japan Soc Precision Eng **64**(6) 861-865 (Jun 1998), 1T922
Light power density distribution of image spot of laser triangulation measuring, Opt Lasers Eng **29**(6) 457-463 (Jun 1998), 1T923
Monitoring the structural health of Kevlar cables by means of fiber-optic technology, J Sound Vib **214**(3) 576-579 (Jul 1998), 1T924
Non-destructive testing of aerospace composite materials using digital shearography, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 21-30 (1998), 1A925
Photoelastic analysis with a single tricolor image, Opt Lasers Eng **29**(6) 423-435 (Jun 1998), 1A926
Propagation-mode near-field method for measuring optical waveguides of graded index profile: Some considerations on TM-modes, Opt Lasers Eng **29**(6) 499-503 (Jun 1998), 1A927
Strain distribution in the ligament using photoelasticity: A direct application to the human ACL, Med Eng Phys **20**(3) 161-168 (Apr 1998), 1A928
Stress intensity factors in human bones by optical methods, J Mech Behavior Mat **9**(1) 17-22 (1998), 1A929
Review of recent developments and applications in the field of X-ray diffraction for residual stress studies, J Strain Anal Eng Des **33**(2) 127-136 (Mar 1998), 2A643
Crack initiation in a coated and an uncoated nickel-base superalloy under TMF conditions, J Eng Gas Turbines Power **120**(4) 792-795 (Oct 1998), 2A829
Absolute determination of the isochromatic parameter by load-stepping photoelasticity, Exp Mech **38**(3) 189-195 (Sep 1998), 2A897
Automated fringe pattern analysis in experimental mechanics: A review, J Strain Anal Eng Des **33**(2) 105-125 (Mar 1998), 2A898
Automatic and interactive large-deformation measurement system based on image processing, Exp Mech **38**(3) 181-188 (Sep 1998), 2A899
Data acquisition techniques in digital photoelasticity: A review, Opt Lasers Eng **30**(1) 53-75 (Jul 1998), 2A900
Error analysis and thermal expansion measurement with electron-beam moire, Exp Mech **38**(3) 167-171 (Sep 1998), 2A901
Extracting Rayleigh waves from noise using a differential optical interferometer, Res Nondestructive Eval **10**(3) 171-184 (1998), 2A902
Method for reducing the influence of quarter-wave plate errors in phase stepping photoelasticity, J Strain Anal Eng Des **33**(3) 207-216 (May 1998), 2A903
Moire strain analysis: An introduction, review and critique, including related techniques and future potential, J Strain Anal Eng Des **33**(2) 137-151 (Mar 1998), 2A904
Recent developments and applications in electronic speckle pattern interferometry, J Strain Anal Eng Des **33**(2) 153-169 (Mar 1998), 2A905
Review of automated methods for the collection and analysis of photoelastic data, J Strain Anal Eng Des **33**(2) 75-91 (Mar 1998), 2A906
Strain analysis by means of digital shearography: Potential, limitations and demonstration, J Strain Anal Eng Des **33**(2) 171-182 (Mar 1998), 2A907
Submicron deformation field measurements - Part 3: Demonstration of deformation determinations, Exp Mech **38**(3) 154-160 (Sep 1998), 2A908
Tricolor photoviscoelastic technique and its application to moving contact, Exp Mech **38**(3) 211-217 (Sep 1998), 2A909
Development and applications of thermoelastic stress analysis, J Strain Anal Eng Des **33**(2) 93-104 (Mar 1998), 2A1316
Polymer coating as a strain witness in thermoelasticity, J Strain Anal Eng Des **33**(3) 223-232 (May 1998), 2A1338
Study of human bones by 2D and 3D photoelasticity, Sci Eng J (Ciencia Eng) **7**(1) 5-10 (Jan-Jun 1998), 2A1562
Automated inspection of solder joints: A neural network approach, European J Mech Eng **43**(3) 129-135 (1998), 3A858
Quantitative characterization of multiple delaminations in laminated composites using the Compton backscatter technique, J Nondestruct Eval **17**(2) 53-65 (Jun 1998), 3A859
Strain in isotropic pin-joints: Experimental and numerical analysis, Exp Tech **22**(5) 25-27 (Sep-Oct 1998), 3A860
General form for calculating residual stresses detected by using the holographic blind-hole method, Exp Mech **38**(4) 255-260 (Dec 1998), 5A443
Fundamentals and applications of optical fiber Bragg grating sensors to textile structural composites, Composite Struct **42**(3) 217-229 (Jul 1998), 5A751
Holographic image correlation method for measuring 3D solid deformations, Exp Tech **22**(6) 35-38 (Nov-Dec 1998), 5T752
Recent advancements of Moire and microscopic Moire interferometry for thermal deformation analyses of microelectronics devices, Exp Mech **38**(4) 278-288 (Dec 1998), 5A753
Trends in NDE Science and Technology (Balkema, Rotterdam, Netherlands, 1997) 6N29
Finite element geometry creation using 3D laser profilometry, J Manuf Sci Eng **121**(1) 87-92 (Feb 1999), 6A23
Roughness measurement of metallic surfaces based on the laser speckle contrast method, Opt Lasers Eng **30**(5) 433-440 (Nov 1998), 6A504
Influence of material properties of SIFs determined by frozen stress, Eng Fracture Mech **61**(5-6) 555-568 (Nov-Dec 1998), 6A895
Analysis of moire fringes for measuring the focal length of lenses, Opt Lasers Eng **30**(3-4) 279-286 (Sep-Oct 1998), 6A979
Determination of anisotropy factor of graphite by visible light bireflectory method (Chinese), J Tsinghua Univ Sci Tech **38**(7) 15-17 (Jul 1998), 6A980
Experimental analysis of surgically corrected knee joint, Strain **34**(4) 135-139 (Nov 1998), 6A981
Factors affecting the intensity distribution in high stress gradient zones in digital photoelasticity, Strain **34**(4) 133-134 (Nov 1998), 6A982
New method for photoelastic fringe analysis from a single image using elliptically polarized white light, Opt Lasers Eng **30**(5) 441-459 (Nov 1998), 6A983
Optically enhanced tiling in digital fringe pattern analysis, Strain **34**(4) 127-131 (Nov 1998), 6A984
Performance evaluation of fringe thinning algorithms for interferometric tomography, Opt Lasers Eng **30**(3-4) 229-249 (Sep-Oct 1998), 6A985
Phase shifting method for retroreflective grating analysis, Strain **34**(4) 123-126 (Nov 1998), 6A986
Projection method for reconstructing X-ray images of arbitrary cross-section, NDT&E Int **32**(1) 9-20 (Jan 1999), 6A987
Strain field measurements in industrial applications using dual-beam digital speckle photography, Opt Lasers Eng **30**(5) 421-431 (Nov 1998), 6A988
Strain field measurements with dual-beam digital speckle photography, Opt Lasers Eng **30**(3-4) 315-326 (Sep-Oct 1998), 6A989
Use of contrast agents to enhance crack detection via neutron radiography, NDT&E Int **32**(1) 37-42 (Jan 1999), 6A990
Optical evaluation method for run-out error of high precision spindle by separating rotational error with tool chucking error (Japanese), J Japan Soc Precision Eng **64**(12) 1785-1790 (Dec 1998), 7A444
Evaluation of residual deformations in 10n implanted steel plates by means of TV holography, Exp Tech **23**(1) 20-22 (Jan-Feb 1999), 7A782
Experimental optimization of an optopneumatic interface, Exp Tech **23**(1) 26-29 (Jan-Feb 1999), 7T783
Fundamental principles and techniques of X-ray stress measurement and current developments in the field - II: Microstress and macrostress (Japanese), J Soc Mat Sci Japan **47**(12) 1301-1307 (Dec 1998), 7T784
Mechanical fringe shifting in moire interferometry, Exp Tech **23**(1) 16-19 (Jan-Feb 1999), 7A785
Poroelastic FE analysis of a bone specimen under cyclic loading, J Biomech **32**(2) 135-144 (Feb 1999), 7A786
Superficial residual stress analysis in a photoelastic medium by phase shifting technique, Exp Tech **23**(1) 23-25 (Jan-Feb 1999), 7T787
Whole field determination of isoclinic and isochromatic parameters, Exp Tech **23**(1) 30-33 (Jan-Feb 1999), 7A788
Whole-field residual stress measurement in rail using moire interferometry and Twyman-Green interferometry via thermal annealing, Exp Mech **39**(1) 71-76 (Mar 1999), 8A558
State and dynamic testing of a quasi-isotropic composite with embedded optical fibers, Composites Part A Appl Sci and Manuf **30A**(3) 317-324 (1999), 8A619
Compression strain measurement by digital speckle correlation, Exp Mech **39**(1) 62-65 (Mar 1999), 8A816
Phase-stepped deflectometry applied to shape measurement of bent plates, Exp Mech **39**(1) 66-70 (Mar 1999), 8A817
Strain tensor for large 3D surface deformation of sheet metal from an object grating, Exp Mech **39**(1) 30-35 (Mar 1999), 8A818
X-ray analysis of residual stresses in C-SiC composites, Appl Composite Mat **6**(1) 51-66 (Jan 1998), 8A819
Manual on Experimental Methods of Mechanical Testing of Composites, Second Edition (Fairmont Press, Lilburn GA, 1998) 9N29
Estimation of surface profile from defocused fringe observation using phase shift interferometry, Int J Japan Soc Precision Eng **32**(4) 284-285 (Dec 1998), 9T551
Measurement of strain concentration factor of composites plate using moire interferometry, Strain **35**(1) 11-14 (Feb 1999), 9A675
Counting error elimination for calibration of vibration pick-up sensitivity in fringe-counting method, Int J Japan Soc Precision Eng **32**(4) 286-287 (Dec 1998), 9A945
Expanding use of lasers in nondestructive testing, Mat Eval **57**(4) 426-430 (Apr 1999), 9T946
Fast pulsed laser technology enables dynamic fracture analysis, Mat Eval **57**(4) 434-439 (Apr 1999), 9A947
Fiber optic sensor based on a middle infrared diode laser and an acoustooptic modulator, Russian Ultrasonics **28**(6) 272-276 (1998), 9T948
Fusion of digital photoelasticity rapid prototyping and rapid tooling technologies, Exp Tech **23**(2) 36-38 (Mar-Apr 1999), 9T949
Innovative furnace tube inspection system, Mat Eval **57**(4) 447- 449 (Apr 1999), 9A950
Laser profilometry as an inspection method for reformer catalyst tubes, Mat Eval **57**(4) 420-422 (Apr 1999), 9T951
Use of multiple loads to extract continuous isoclinic fringes by phase shifting technique, Strain **35**(1) 15-17 (Feb 1999), 9A952
Shape measurements on large surfaces by fringe projection, Exp Tech **23**(2) 31-35 (Mar-Apr 1999), 9A1001
Nonuniform swelling-induced residual strains in articular cartilage, J Biomech **32**(4) 401-408 (Apr 1999), 9A1591
Three dimensional ray tracing in austenite materials, NDT&E Int **32**(4) 201-213 (Jun 1999), 10A254
Development of an optical measurement method for surface roughness of 3D cast metals (Japanese), J Japan Soc Precision Eng **65**(3) 459-463 (Mar 1999), 10T492
Shape measurement of rough step like surface using a laser diode: The method with three-wavelength phase shifting (Japanese), J Japan Soc Precision Eng **65**(3) 418-422 (Mar 1999), 10A498
X-ray diffraction studies on fatigue crack plastic zones developed under plane strain state conditions, Fatigue Fracture Eng Mat Struct **22**(2) 133-144 (1999), 10A847
Analysis of zone-plate interference fringes with wavelet transform (Japanese), J Japan Soc Precision Eng **65**(3) 433-437 (Mar 1999), 10A952
Inverse method of computing coefficient of thermal expansion using interferometer data, Inverse Prob Eng **7**(2) 97-118 (1999), 10A953
NDT and E for the diagnosis of defects using infrared thermography, NDT&E Int **32**(5) 247-257 (Jul 1999), 10A954
Optical inspection methods in Taiwan, Opt Lasers Eng **30**(6) 471-550 (Dec 1998), 10T955
Portable pulsed electronic digital X-ray imager, NDT&E Int **32**(4) 215-218 (Jun 1999), 10A956
Tomographic reconstruction from non-calibrated noisy projections in NDE, Inverse Prob **15**(2) 399-411 (Apr 1999), 10A957
Estimation of the 2D measurement error introduced by in-plane and out-of-plane electronic speckle pattern interferometry instruments, Opt Lasers Eng **31**(1) 63-81 (Jan 1999), 11A440
Automatic technique for superficial defects identification in metal patches, Appl Mech Eng **4**(1) 121-131 (1999), 11A841
Development of simultaneous thermo- and photo-elasticity for principal stress analyses, Strain **35**(2) 57-65 (May 1999), 11A842
Evaluation of fiber orientation in fibrous materials, Fibres Textiles in E Europe **7**(1) 45-50 (Jan-Mar 1999), 11T843
Integration of spectral and phase-stepping methods in photoelasticity, J Strain Anal Eng Des **34**(1) 59-64 (Jan 1999), 11A844
Novel interferometric method for contour mapping of optically rough surfaces, Opt Lasers Eng **31**(1) 41-50 (Jan 1999), 11A845
Surface roughness measurement using an optical system, J Mat Processing Tech **88**(1-3) 10-22 (Apr 1999), 11A846
Thin-film gage markers for laser-based strain measurement on MEMS materials, Exp Tech **23**(3) 28-30 (May-Jun 1999), 11A847
Observation of the propagation of plastic strain in HSLA 80 steel, J Test Eval **27**(2) 85-88 (Mar 1999), 12A608
Estimating the location and depth of normal cracks in cantilevers from holographic fringe patterns, J Eng Mat Tech **121**(3) 399-401 (Jul 1999), 12A864
Failure analysis using microfocus X-ray imaging, J Test Eval **27**(2) 137-142 (Mar 1999), 12A865
Fringe analysis, Opt Lasers Eng **31**(2) 93-170 (Feb 1999), 12A866
High-performance computing algorithm for improving in-line holography, Comput Model Simul in Eng **4**(2) 162-166 (May 1999), 12T867
Mach-Zehnder interferometer investigations on some laser dye solvents, Acta Phys Polonica A **95**(6) 939-952 (Jun 1999), 12T868
Microphotoelastic stress analysis of rough interface contact and some problems (Chinese), J Dalian Univ Tech **39**(3) 363-366 (May 1999), 12A869
Monitoring and measuring pitting corrosion of stainless steel by holographic interferometry, Nondestruct Test Eval **15**(2) 83-91 (Apr 1999), 12A870
Nonlinear optical measurements of elastic constants in neumatic liquid crystal, Acta Phys Polonica A **95**(5) 793-800 (May 1999), 12A871

280S. Acoustic NDT

Estimation of impact-induced damage in CFRP laminates through ultrasonic imaging, NDT&E Int **31**(5) 359-374 (Oct 1998), 1A930
Experimental approach for developing an alternative method for determining *in situ* stress using acoustic emission technique, Indian J Eng Mat Sci **5**(3) 106-110 (Jun 1998), 1A931
Ultrasonic NDE of microstructural changes of solid materials under plastic deformation - Part I: Theory, Int J Plasticity **14**(6) 511-522 (1998), 1A932
Ultrasonic NDE of microstructural changes of solid materials under plastic deformation - Part II: Experiment and simulation, Int J Plasticity **14**(6) 523-535 (1998), 1A933
Resonant Ultrasound Spectroscopy: Applications to Physics, Materials Measurements, and Nondestructive Evaluation (Wiley, New York, 1997) 2R10
Measurement of prestress force in the rods of stressed timber bridges using stress waves, Mat Eval **56**(8) 977-981 (Aug 1998), 2A299
Acoustic emission from CFRP laminates during fatigue loading, J Reinforced Plastics Composites **17**(13) 1185-1201 (1998), 2A910

Analysis and results of a continuous wave ultrasonic densitometer, J Acoust Soc Am **104**(3-PT1) 1413-1417 (Sep 1998), 2A911

Application of genetic algorithms to ultrasonic tomography, J Acoust Soc Am **104**(3-PT1) 1374-1381 (Sep 1998), 2A912

Application of suspension method to study of the elastic properties of crumbly coals, Appl Acoust **55**(4) 329-343 (Dec 1998), 2A913

General lessons learnt from round robin tests and qualifications tests relating to NDE, Int J Pressure Vessels Piping **75**(5) 417-427 (Apr 1998), 2T914

Heterogeneous structure of modes and Kramers-Kronig relationship in anisotropic viscoelastic materials, J Acoust Soc Am **104**(3-PT1) 1382-1388 (Sep 1998), 2A915

Lamb wave assessment of fiber volume fraction in composites, J Acoust Soc Am **104**(3-PT1) 1399-1403 (Sep 1998), 2A916

Sensitive ultrasonic approach to NDE of tightly closed small cracks, J Pressure Vessel Tech **120**(4) 384-392 (Nov 1998), 2A917

Use of plate wave acoustic emission signals from PZT ceramics under electric stress to detect domain alignment and microcracking, Acoust Lett **20**(12) 254-259 (Jun 1997), 2A918

Simple model calculation of elastic wave propagation in the austenitic steel, Nondestruct Test Eval **14**(6) 393-402 (Jul 1998), 3A219

Acoustic characterization of fractal crack surface, Physica D **122**(1-4) 155-160 (Nov 1998), 3A861

Acoustoelastic determination of residual stress by measurement of resonance peaks and phase shifts, J Nondestruct Eval **17**(2) 89-102 (Jun 1998), 3A862

Composition dependence of the elastic moduli of mixed nickel-zinc ferrites, Acoust Lett **21**(2) 30-37 (Aug 1997), 3A863

Detection of surface and subsurface flaws in homogeneous and composite solids by resonant ultrasound, J Nondestruct Eval **17**(2) 79-87 (Jun 1998), 3A864

Elasticity of fused silica spheres under pressure using resonant ultrasound spectroscopy, J Acoust Soc Am **104**(4) 2200-2206 (Oct 1998), 3A865

Experimental and numerical results for intensity modulated laser ultrasonics, J Acoust Soc Am **104**(4) 2207-2212 (Oct 1998), 3A866

Ultrasonic nondestructive testing of braze defects (Chinese), J Xi'an Jiaotong Univ **32**(7) 80-84 (1998), 3A867

Fundamental study on ultrasonic nondestructive evaluation of butt welded joints of thick steel plate containing planar defects (Japanese), Proc JSCE **598**(I-44) 323-332 (Jul 1998), 3A995

Structural and Residual Stress Analysis by Nondestructive Testing: Evaluation, Application, and Assessment (Elsevier Sci BV, Netherlands, 1997) 4R9

Acoustic testing of butt joints in boiler heating surface pipes, Russian Ultrasonics **28**(2) 76-81 (1998), 4A855

Contrast mechanism of bond defects with the scanning acoustic microscopy, J Acoust Soc Am **104**(5) 2750-2755 (Nov 1998), 4A856

Determination and monitoring of through hole diameters in printed wiring boards during electrolytic plating using acoustic diffraction, Mat Eval **56**(10) 1227-1231 (Oct 1998), 4A857

Inverse bounds for microstructural parameters of composite media derived from complex permittivity measurements, Waves in Random Media **8**(4) 437-450 (Oct 1998), 4A858

Neural network characterization of flaws detected by ultrasonic approach (Chinese), J Dalian Univ Tech **38**(5) 548-552 (Sep 1998), 4A859

Technique for measuring the ellipticity and rotation of the polarization plane of ultrasound, J Acoust Soc Am **104**(5) 2756-2762 (Nov 1998), 4A860

Use of acoustic emission techniques for detection of discontinuities, Mat Eval **56**(10) 1215-1222 (Oct 1998), 4A861

Study of the local elastic properties of micro-inclusions and microforms by an acoustic interference fringe method, Russian Ultrasonics **28**(3) 98-101 (1998), 5A185

Theoretical study of mathematical model of acoustic emission of turning tool crack (Chinese), J Beijing IT **18**(2) 170-175 (Apr 1998), 5A272

Imaging of rock fractures with low-frequency ultrasonic reflection-diffraction, Geotech Testing J **21**(4) 317-327 (Dec 1998), 5A621

Acoustic emission waveform analysis from weld defects in steel ring samples, J Pressure Vessel Tech **121**(1) 77-83 (Feb 1999), 5A754

Effect of front surface roughness on ultrasonic contact testing: A few practical observations, Mat Eval **56**(11) 1302-1309 (Nov 1998), 5A755

Electromagnetic wire rope inspection: Resolution is important, Mat Eval **56**(11) 1297-1301 (Nov 1998), 5A756

Fractal characterization of ultrasonic signals from polycrystalline materials, Chaos Solitons Fractals **9**(11) 1827-1834 (Nov 1998), 5A757

Low resolution pulsed NMR and ultrasound study to monitor the cure of an epoxy resin adhesive, Int J Adhesion Adhesives **18**(5) 319-331 (Oct 1998), 5A758

Noise analysis of digital ultrasonic system and elimination of pulse noise, Int J Pressure Vessels Piping **75**(12) 887-890 (Oct 1998), 5A759

Ultrasonic measurement of the bending of a bolt in a shear joint, Exp Mech **38**(4) 270-277 (Dec 1998), 5A760

Fundamentals of Ultrasonic Nondestructive Evaluation: A Modeling Approach (Plenum, New York, 1998) 6R14

Trends in NDE Science and Technology (Balkema, Rotterdam, Netherlands, 1997) 6N29

Acoustic emission in composite laminates, J Nondestruct Eval **17**(3) 117-127 (Sep 1998), 6A991

Acoustic emission monitoring of tool wear in end-milling using time-domain averaging, J Manuf Sci Eng **121**(1) 8-12 (Feb 1999), 6A992

Acoustic-emission characterization of the failure modes in polymer-composite materials, Composites Sci Tech **58**(12) 1923-1928 (Dec 1998), 6A993

Condition monitoring in reaming through acoustic emission signals, J Mat Processing Tech **86**(1-3) 81-86 (Feb 1999), 6A994

Elastic fields in immersed isotropic solids from phased arrays: The time harmonic case, Res Nondestructive Eval **10**(4) 185-204 (1998), 6A995

Evaluation of the structural integrity of timber bridges, NDT&E Int **32**(1) 43-48 (Jan 1999), 6A996

Non-contact estimation of thickness and elastic properties of metallic foils by the wavelet transform of laser-generated lamb waves, NDT&E Int **32**(1) 21-27 (Jan 1999), 6A997

Reference standard for the development of acoustic emission pipeline leak detection techniques, NDT&E Int **32**(1) 1-8 (Jan 1999), 6A998

Ultrasonic guided wave NDT for hidden corrosion detection, Res Nondestructive Eval **10**(4) 205-225 (1998), 6A999

Ultrasonic instrumentation for measuring applied stress on bridges, J Nondestruct Eval **17**(3) 141-152 (Sep 1998), 6A1000

Elastic waves for the characterization of materials, Mech Mat **31**(3) 165-233 (Mar 1999), 7T213

Application of the acoustic resonance method to evaluate the grain size of low carbon steels, NDT&E Int **32**(2) 85-89 (Mar 1999), 7A789

C-scan and L-scan generated images of the concrete-GFRP composite interface, NDT&E Int **32**(2) 61-69 (Mar 1999), 7A790

Comparison of Q-switched and intensity modulated laser pulses for ultrasonic NDT, J Nondestruct Eval **17**(4) 199-208 (Dec 1998), 7A791

Impulse modeling of the Rayleigh wave propagation generated by a spherical focused transducer, J Nondestruct Eval **17**(4) 179-190 (Dec 1998), 7A792

Single-sided ultrasonic technique to characterize thick FRP composites, J Nondestruct Eval **17**(4) 223-230 (Dec 1998), 7A793

Towards automated interpretation of ultrasonic NDT data, NDT&E Int **32**(2) 101-107 (Mar 1999), 7A794

Initiation and growth of delamination in glass-epoxy composites subjected to static and dynamic loading by acoustic emission monitoring, Composites Sci Tech **59**(2) 201-208 (Feb 1999), 8A786

Scanning acoustic microscopy as a tool for quantitative characterization of damage in CFRPs, Composites Sci Tech **59**(3) 345-354 (Feb-Mar 1999), 8A793

Study on interfacial aspects of epoxy-based composites reinforced with dual basalt and SiC fibers by means of the fragmentation and acoustic emission techniques, Composites Sci Tech **59**(3) 355-370 (Feb-Mar 1999), 8A797

Determination of the texture parameters in rolled aluminium articles by means of ultrasound, Russian Ultrasonics **28**(4) 129-135 (1998), 8A820

Elastic contact problem of the piezoelectric material in the structure of a bolt-clamped Langevin-type transducer, J Acoust Soc Am **105**(3) 1651-1656 (Mar 1999), 8A821

Experimental characterization of ultrasonic phased arrays for the NDE of concrete structures, Mat Eval **57**(2) 134-140 (Feb 1999), 8A822

Selection of papers presented at the 9th Asia-Pacific Conference on NDT: March 23-27 1998, California, NDT&E Int **32**(3) 127-185 (Apr 1999), 8T823

Study on the longitudinal-torsional compound transducer with slanting slots, J Acoust Soc Am **105**(3) 1643-1650 (Mar 1999), 8A824

Measurement by an acoustic method of the thickness of welded joints in power equipment cast articles, Russian Ultrasonics **28**(6) 237-248 (1998), 9T222

Solution of one of the most important problems in ultrasonic testing, Russian Ultrasonics **28**(5) 204-210 (1998), 9T226

Ultrasonic flaw detection of welded joints in thin walled articles, Russian Ultrasonics **28**(6) 249-256 (1998), 9T227

Ultrasonic testing in the manufacture of a hydrocracking reactor vessel in accordance with the norms of the ASME code, Russian Ultrasonics **28**(5) 191-197 (1998), 9T228

Effect of sensor placement errors on cylindrical near-field acoustic holography, J Acoust Soc Am **105**(4) 2269-2276 (Apr 1999), 9A364

Measurement of the stiffness coefficients of a viscoelastic composite material with laser-generated and detected ultrasound, J Acoust Soc Am **105**(4) 2226-2235 (Apr 1999), 9A953

Phase ultrasonic testing of joints in multilayered composite materials, J Thermoplastic Composite Mat **12**(2) 154-162 (Mar 1999), 9A954

Fatigue-life prediction of SiC aluminum composite using a Weibull model, NDT&E Int **32**(5) 265-274 (Jul 1999), 10A867

Measurement of anisotropic elastic moduli in local area by acoustic microscope - The case of cubic single crystal, JSME Int J Ser A **41**(3) 430-438 (Jul 1998), 10A947

Acoustic lens to measure wave velocities with the complex V(z) curve method, NDT&E Int **32**(4) 219-224 (Jun 1999), 10A958

Frequency characteristic of the acoustic emission signal in concrete under compressive loading, Arch Acoust **23**(3) 451-456 (1998), 10A959

Hydrogen damage detection by ultrasonic spectral analysis, NDT&E Int **32**(5) 275-281 (Jul 1999), 10A960

Modal acoustic emission of damage accumulation in a woven SiC-SiC composite, Composites Sci Tech **59**(5) 687-697 (Apr 1999), 10A961

Modeling elastic wave propagation in waveguides with the FEM, NDT&E Int **32**(4) 225-234 (Jun 1999), 10A962

Ultrasonic evaluation of stresses in orthotropic materials using Rayleigh waves, NDT&E Int **32**(4) 189-199 (Jun 1999), 10A963

Ultrasonic measurement of axial stress in short bolts with consideration of nonlinear deformation, JSME Int J Ser A **42**(1) 111-118 (Jan 1999), 10A964

Acoustic study of texture in polycrystalline brass, J Acoust Soc Am **105**(5) 2663-2668 (May 1999), 11A848

Methodology for minimizing effects of temperature in monitoring with the acousto-ultrasonic technique, Exp Mech **39**(2) 86-91 (Jun 1999), 11A849

On-line observation of interlaminar damage by ultrasonic inspection, Composites Sci Tech **59**(6) 957-961 (May 1999), 11A850

Photoacoustic detection and localization of small gas leaks, J Acoust Soc Am **105**(5) 2685-2694 (May 1999), 11A851

Ultrasonic Waves in Solid Media (Cambridge UP, UK) 12R7

Nondestructive characterization of adhesive joint durability using ultrasonic reflection measurements, Res Nondestructive Eval **11**(2) 81-95 (1999), 12A872

Studies of failure of high-strength concrete, Eng Trans **46**(3-4) 333-351 (1998), 12A873

Study of coupling fluids for the microacoustic characterization of high velocity materials, Acustica **85**(3) 346-354 (May-Jun 1999), 12A874

Ultrasonic signal-transmission techniques for compact microtunneling systems, J Test Eval **27**(2) 114-121 (Mar 1999), 12A875

Acoustic and ultrasonic tissue characterization, Proc Inst Mech Eng H **213**(H3) 169-292 (1999), 12A1647

280T. Electrical NDT

Effect of strain gage size on measurement errors in textile composite materials, Composites Sci Tech **58**(3-4) 539-548 (Mar-Apr 1998), 1A656

Probabilistic models for condition assessment of oil and gas pipelines, NDT&E Int **31**(5) 349-358 (Oct 1998), 1A863

Method for sizing of 3D surface breaking flaws by leakage flux, NDT&E Int **31**(5) 317-324 (Oct 1998), 1A934

NDE of a 3D surface crack using magnetic field induced by DC current flow, NDT&E Int **31**(5) 325-328 (Oct 1998), 1A935

Nondestructive evaluation of a 3D surface crack using closely coupled probes for DCPD technique, J Pressure Vessel Tech **120**(4) 374-378 (Nov 1998), 2A919

Eddy current probe impedance due to a flaw: The influence of phase shifted fields, J Nondestruct Eval **17**(2) 47-52 (Jun 1998), 3A868

Inversion scheme based on optimization for 3D Eddy current flaw reconstruction problems, J Nondestruct Eval **17**(2) 67-78 (Jun 1998), 3A869

Nondestructive testing of reinforced and pre-stressed concrete structures, Nondestruct Test Eval **14**(6) 339-392 (Jul 1998), 3A870

Quantitative imaging of corrosion in plates by eddy current methods, SIAM J Appl Math **58**(5) 1509-1531 (Oct 1998), 3A871

Study of polymer materials by dielectric and thermal NDT methods, Polymers and Polymer Composites **6**(4) 229-235 (1998), 3A872

Structural and Residual Stress Analysis by Nondestructive Testing: Evaluation, Application, and Assessment (Elsevier Sci BV, Netherlands, 1997) 4R9

Theoretical and experimental study of alternating current stress measurement under different loading modes, J Strain Anal Eng Des **33**(4) 291-303 (Jul 1998), 4A862

Tight crack modeling for the FE simulation of inspection tools in pipelines, Mat Eval **56**(10) 1223-1226 (Oct 1998), 4A863

Electromagnetic Nondestructive Evaluation (III) (IOS, Netherlands, 1999) 6N22

Trends in NDE Science and Technology (Balkema, Rotterdam, Netherlands, 1997) 6N29

ECT inversion using a knowledge-based forward solver, J Nondestruct Eval **17**(3) 167-175 (Sep 1998), 6A1001

New approach for optimal design of eddy current testing probes, J Nondestruct Eval **17**(3) 105-116 (Sep 1998), 6A1002

Rapid prediction of eddy current testing signals using A - ϕ method and database, NDT&E Int **32**(1) 29-36 (Jan 1999), 6A1003

Three-dimensional solution and experimental confirmation for the electric resistivity testing of surface-breaking defects in green-state powder metallurgy compacts, J Nondestruct Eval **17**(3) 153-166 (Sep 1998), 6A1004

A, ϕ-Ω method for 3D eddy current analysis, Appl Math Mech **19**(11) 1017-1023 (Nov 1998), 7A795

Adapting an ultrasonic image threshold method to eddy current images and defining a validation domain of the thresholding method, NDT&E Int **32**(2) 79-84 (Mar 1999), 7A796

Approximate inverse mapping in ECT, based on aperture shifting and neural network regression, J Nondestruct Eval **17**(4) 209-221 (Dec 1998), 7A797

Attenuation-matched inversion methods of diffusive wavefields, Inverse Prob **15**(1) 99-111 (Feb 1999), 7A798

New technique for calibration in frequency of piezoelectric transducers, NDT&E Int **32**(2) 71-77 (Mar 1999), 7A799

Nondestructive evaluation of interlaminar bonding for *in situ* consolidation of polymer composites, J Composite Mat **33**(2) 124-157 (1999), 7A800

Tube to tube through transmission technique for inspecting finned heat exchanger tubes, J Nondestruct Eval **17**(4) 191-197 (Dec 1998), 7A801

Modeling magnetostrictive generation of elastic waves in steel pipes - I: Theory, Int J Appl Electromagnetics Mech **10**(2) 143-166 (Apr 1999), 9A211

Modeling magnetostrictive generation of elastic waves in steel pipes - II: Comparison to experiment, Int J Appl Electromagnetics Mech **10**(2) 167-176 (Apr 1999), 9A212

Characterization of cracks using eddy current tomography, Int J Appl Electromagnetics Mech **10**(2) 91-103 (Apr 1999), 9A955

Computation of eddy current probe response due to a long crack based on a vector potential integral formlulation, Int J Appl Electromagnetics Mech **10**(1) 77-89 (Feb 1999), 9A956

Monitoring the level of magnetization in AC-yokes by utilizing the twin induction method, Acta Polytech Scand Mech Eng **0**(135) 3-128 (1999), 9A957

Analysis of direct current potential difference in a multiple-cracked material, JSME Int J Ser A **41**(3) 372-379 (Jul 1998), 10A965

Analysis of eddy currents in a bar containing an embedded defect, NDT&E Int **32**(5) 293-303 (Jul 1999), 10A966

Analysis of interaction of multiple cracks in a direct current field and nondestructive evaluation, J Appl Mech **66**(2) 468-475 (Jun 1999), 10A967

Microwave nondestructive detection of delamination in IC packages utilizing open-ended coaxial line sensor, NDT&E Int **32**(5) 259-264 (Jul 1999), 10A968

NDT data fusion at pixel level, NDT&E Int **32**(5) 283-292 (Jul 1999), 10A969

In situ detection of damage in CFRP laminates by electrical resistance measurements, Composites Sci Tech **59**(6) 925-935 (May 1999), 11A852

Characterization of electric and magnetic material properties with eddy-current measurements, Nondestruct Test Eval **15**(2) 93-107 (Apr 1999), 12A876

Monitoring delamination growth in CFRP materials using eddy currents, Nondestruct Test Eval **15**(2) 65-82 (Apr 1999), 12A877

280U. Other NDT

Structural deformation sensor to obtain operational information (Japanese), J Japan Soc Precision Eng **64**(6) 875-880 (Jun 1998), 1A936

Use of magnetic resonance imaging techniques in assessing the uptake of surface treatments and water movement through stone faces, Mat Struct **31**(210) 423-427 (Jul 1998), 1A937

Measurement of tensile properties of metallic foils, J Appl Mech **65**(3) 782-783 (Sep 1998), 2A920

Object-oriented model and code for the visual examination of subsurface structures under historical buildings, Comput Struct **69**(1) 85-94 (Oct 1998), 2A921

Status of extreme ultraviolet lithography beyond 0.1 μm (Japanese), J Japan Soc Precision Eng **64**(7) 979-990 (Jul 1998), 2T922
Mass change detection based on reduced measurements, Acta Mech **131**(1-2) 89-101 (1998), 3A873
Using Archimede's principle to determine cross-sectional areas, Exp Tech **22**(5) 17-18 (Sep-Oct 1998), 3T874
Study on evaluation method for paint film deterioration of steel bridge with image processing technology (Japanese), Proc JSCE **598**(I-44) 85-96 (Jul 1998), 3A948
Development of 3D profile measuring apparatus for microparts: Measuring principle and measuring results (Japanese), J Japan Soc Precision Eng **64**(9) 1395-1399 (Sep 1998), 4A485
Proposal of PDSV method estimating shape of corresponding region on right and left images (Japanese), J Japan Soc Precision Eng **64**(9) 1390-1394 (Sep 1998), 4A501
Structural Faults and Repair, NDT&E Int **31**(6) 389-443 (Dec 1998), 4A864
Three-point bend test of welded strength mismatching specimens (Chinese), J Xi'an Jiaotong Univ **32**(11) 108-110 (1998), 5T761
Evaluation of residual stresses in the bulk of materials by high energy synchrotron diffraction, J Nondestruct Eval **17**(3) 129-140 (Sep 1998), 6A575
Strength of porous material: Simple systems and densified systems, Mat Struct **31**(214) 651-661 (Dec 1998), 6A1005
Evaluation of residual deformations in 10n implanted steel plates by means of TV holography, Exp Tech **23**(1) 20-22 (Jan-Feb 1999), 7A782
Newly developed micro-indentation and scratch tester for measuring sub-surface damaged layer (Japanese), J Japan Soc Precision Eng **65**(1) 131-135 (Jan 1999), 8A825
Parametric estimation approach for groove dimensioning using remote field eddy current inspection, Res Nondestructive Eval **11**(1) 39-57 (1999), 9A557
Nondestructive determination of the elastic anisotropy in aluminum-SiC and Al_2O_3 metal matrix composites, Res Nondestructive Eval **11**(1) 1-13 (1999), 9A676
Fusion of digital photoelasticity rapid prototyping and rapid tooling technologies, Exp Tech **23**(2) 36-38 (Mar-Apr 1999), 9T949
Crystal structure of $K_3Na(SeO_4)_2$ at 340 K, Acta Phys Polonica A **94**(5-6) 795-801 (Nov-Dec 1998), 9T958
Study of hall element method for ball motion in a ball bearing, JSME Int J Ser C **41**(3) 443-449 (Sep 1998), 9A1059
Analysis of stress gradient in ceramic film by X-ray method, JSME Int J Ser A **41**(3) 416-421 (Jul 1998), 10A970
X-ray study of residual stress distribution of ground ceramics, JSME Int J Ser A **41**(3) 422-429 (Jul 1998), 10A971
Nondestructive detection of cracks in tubular T-joints using vibration characteristics, J Offshore Mech Arctic Eng **121**(3) 144-152 (Aug 1999), 11A853
Simultaneous linear equations of X-ray stress analysis for textured materials (Chinese), J Shanghai Jiaotong Univ **33**(2) 135-138 (Feb 1999), 11A854
Application of CBED for determination of point and space groups of crystals (Polish), Arch Naukio Mat **20**(1) 39-57 (1999), 12A878
Carbon black-polyethylene composites studied by positron annihilation, Acta Phys Polonica A **95**(4) 509-514 (Apr 1999), 12T879
Does positronium feel dynamics of polymer chain?, Acta Phys Polonica A **95**(4) 596-604 (Apr 1999), 12A880
Free volume study on three types of shape memory polymers by positron annihilation, Acta Phys Polonica A **95**(4) 677-682 (Apr 1999), 12T881
Influence of deformation and chemical composition on elementary free volumes in glassy polymers, Acta Phys Polonica A **95**(4) 659-662 (Apr 1999), 12T882
Material constants for wet pine sapwood, Stud Geotech Mech **20**(3-4) 39-52 (1998), 12A883
Positron lifetime spectroscopy of nanocrystalline copper, Acta Phys Polonica A **95**(4) 487-495 (Apr 1999), 12A884
Use of synchrotron radiation in plastics analysis, J Reinforced Plastics Composites **18**(7) 642-650 (1999), 12A885

280W. Instrumentation

Novel high-resolution interference spectrometer, Opt Lasers Eng **29**(6) 413-422 (Jun 1998), 1A938
Multiplexed optical fiber-based extrinsic Fabry-Perot sensor system for *in-situ* strain monitoring in composites, Smart Mat Struct **7**(4) 550-556 (Aug 1998), 2A684
Fast responding combined direct and indirect calorimeter for human subjects, Med Eng Phys **20**(4) 291-301 (Jun 1998), 2A1558
Rapid response microviscosimeter, Biorheol **35**(1) 89-102 (Jan-Feb 1998), 2A1560
Bi-directional reflection measurements from 2D microcontoured metallic surfaces, Microscale Thermophys Eng **2**(4) 245-260 (Oct-Dec 1998), 5A762
Compensation of thermal output of strain gages on orthotropic materials: Case of one compensating gage for multiple active ones, Exp Tech **22**(6) 30-33 (Nov-Dec 1998), 5A763
Dual beam picosecond continuum technique for measurement of short-time-scale transmission spectra, Exp Heat Transfer **11**(4) 281-297 (Oct-Dec 1998), 5A764
Measurement of static strain distribution using piezoelectric polymer film - Principle and application to a holed plate, JSME Int J Ser A **42**(1) 11-16 (Jan 1999), 10A972
Estimation with a few strain gages of stress fields near a notch root of actual structures under in-plane loading, J Test Eval **27**(2) 122-130 (Mar 1999), 12A568
Practical shear wave lens design for improved resolution with acoustic microscope, Res Nondestructive Eval **11**(2) 97-116 (1999), 12A886

282. STRUCTURES (BASIC)

282A. General theory

Structural Analysis: A Historical Approach (Cambridge UP, New York, 1998) 1R13
Assemblage of particles for intelligent materials, Smart Mat Struct **7**(4) 496-501 (Aug 1998), 2A567
Border between functional programming and program synthesis, Proc Estonian Acad Sci Eng **4**(2) 119-129 (Jun 1998), 2A923
Convolution approach for two-sided solution bounding in unilateral structural elastodynamics, Acta Mech **131**(1-2) 133-137 (1998), 3A875
Higher order shear lag theory of box girders with deformable cross sections (Japanese), Proc JSCE **598**(I-44) 137-148 (Jul 1998), 3A876
Limit analysis for no-tension and frictional 3D discrete systems, Mech Struct Machines **26**(3) 287-304 (1998), 3A917
Surface roughness effects infinitely long porous journal bearings, J Trib **121**(1) 139-147 (Jan 1999), 4A865
Viscoelastic Structures: Mechanics of Growth and Aging (Academic, San Diego, CA, 1998) 5R17
Structures in the New Millennium (Balkema, Rotterdam, Netherlands, 1997) 6N28
Singular configurations of structural systems, Int J Solids Struct **36**(6) 885-897 (Feb 1999), 6A1006
Theory of discrete structural model analysis and design, Int J Solids Struct **36**(16) 2443-2462 (Jun 1999), 7A802
Virtual structure method of structure analysis (Chinese), J Shanghai Jiaotong Univ **32**(11) 140-143 (Nov 1998), 7A803
Survey of structural tangent stiffness in fully nonlinear and nonconvex cases including material softening, Mech Struct Machines **27**(1) 37-62 (1999), 8T826
Upper bound kinematic approach to the shakedown analysis of structures, Meccanica **34**(1) 49-56 (Feb 1999), 9A959
Elastic energy of structures under proportional loading, Arch Mech **50**(5) 849-863 (1998), 10A973
Minimum weights of compression structures, Int J Solids Struct **36**(24) 3677-3708 (Aug 1999), 10A974
Tubular Structures VIII (Balkema, Rotterdam, Netherlands, 1998) 11N24

282B. Limit design (shakedown)

Numerical shakedown analysis of damaged structures, Comput Methods Appl Mech Eng **160**(1-2) 57-70 (Jul 1998), 1A939
Shakedown of torispherical heads using plastic analysis, J Pressure Vessel Tech **120**(4) 431-437 (Nov 1998), 2A630
Limit states and safety of bridges (Polish), Inzynieria Budownictwo **54**(5) 269-271 (1998), 2A924
Interfacial interactions in tribological contact (Polish), Trib **29**(3) 254-264 (1998), 2A1020
Extension of the static shakedown theorem to inelastic cracked structures, Int J Mech Sci **41**(2) 163-177 (Feb 1999), 4A795
Influence of geometrical nonlinearities on the shakedown of damaged structures, Int J Plasticity **14**(9) 891-907 (1998), 5A462
Strength of aluminium alloy plate girders subjected to patch loading, Proc Inst Civil Eng Struct Build **128**(4) 376-384 (Nov 1998), 5A765
Iterative algorithm without search for limit analysis of structures under multi-loading systems (Chinese), J Tsinghua Univ Sci Tech **38**(8) 64-67 (Aug 1998), 6A1007
Solution of limit load and reference stress of 3D structures under multi-loading systems, Eng Struct **21**(6) 530-537 (Jun 1999), 6A1008
Ultimate Limit-State Design of Concrete Structures: A New Approach (Telford, UK, 1999) 7R15
Pseudo-shakedown in structural mechanics of ships (Chinese), J Shanghai Jiaotong Univ **32**(11) 49-53 (Nov 1998), 7A804
Numerical method for lower bound limit analysis of 3D structures with multi-loading systems, Int J Pressure Vessels Piping **76**(2) 105-112 (Feb 1999), 8A827
Steady-state limit analysis of elastoplastic trusses under cyclic loads, Int J Solids Struct **36**(20) 3051-3071 (Jul 1999), 8A828
Global-local shakedown analysis method of elastoplastic cracked structures, Eng Fracture Mech **63**(2) 179-192 (May 1999), 11A799
Note on the limit load of welded joints of a rectangular cross-section, Fatigue Fracture Eng Mat Struct **22**(5) 449-452 (1999), 12A887

282C. Structural optimization

Computational methods for optimal shakedown design of FE structures, Struct Optim **15**(3-4) 284-295 (Jun 1998), 1A17
Modeling and optimal design of composite-reinforced wood railroad crosstie, Composite Struct **41**(1) 87-96 (Jan 1998), 1A647
Application of genetic algorithms to optimal tailoring of composite materials, Composites Sci Tech **58**(3-4) 571-589 (Mar-Apr 1998), 1A651
Multidisciplinary parametric design optimization for enhancing the affordability of molded composites, J Thermoplastic Composite Mat **11**(4) 364-392 (Jul 1998), 1A654
Aeroelastic tailoring considering uncertainties in material properties, Struct Optim **15**(3-4) 157-162 (Jun 1998), 1A940
Application of stochastic FEM to optimal design of structures, Comput Struct **68**(5) 491-497 (Sep 1998), 1A941
Automated optimization of transverse frame layouts for ships by elastic-plastic FE analysis, Struct Optim **15**(3-4) 187-200 (Jun 1998), 1A942
Cluster boundary search algorithm for building-block layout optimization, Adv Eng Software **29**(2) 165-173 (Mar 1998), 1A943
Discrete optimal design of elastoplastic trusses using compliance and stability constraints, Struct Optim **15**(3-4) 261-268 (Jun 1998), 1A944
Evolutionary structural optimization method for sizing problems with discrete design variables, Comput Struct **68**(4) 419-431 (Aug 1998), 1A945
Generalized evolutionary method for numerical topology optimization of structures under static loading conditions, Struct Optim **15**(3-4) 251-260 (Jun 1998), 1A946
Generalized shape optimization using stress constraints under multiple load cases, Struct Optim **15**(3-4) 269-274 (Jun 1998), 1A947
Genetic algorithm applied to stiffness maximization of laminated plates: Review and comparison, Struct Optim **15**(3-4) 221-229 (Jun 1998), 1A948
Interior-point QP algorithm for structural optimization, Struct Optim **15**(3-4) 172-179 (Jun 1998), 1A949
Method of arbitrary lines in optimal shape design: Problems with an elliptic state equation, Comput Methods Appl Mech Eng **160**(1-2) 1-22 (Jul 1998), 1A950
Minimum material cost design of five-layer sandwich beams, Struct Optim **15**(3-4) 215-220 (Jun 1998), 1A951
Motion control and shape optimization of a suitlike flexible arm, Struct Optim **15**(3-4) 163-171 (Jun 1998), 1A952
Multiobjective optimal topology design of structures, Comput Mech **21**(6) 483-492 (Jun 1998), 1A953
Multiple-load truss topology and sizing optimization: Some properties of minimax compliance, J Optim Theory Appl **98**(2) 255-280 (Aug 1998), 1T954
New mixed convex approximation method with applications for truss configuration optimization, Struct Optim **15**(3-4) 237-241 (Jun 1998), 1A955
Novel method of structural shape optimization coupling BEM with an optimization method based on biological growth, Struct Optim **15**(3-4) 296-300 (Jun 1998), 1A956
Optimal design of periodic piezocomposites, Comput Methods Appl Mech Eng **159**(1-2) 49-77 (Jul 1998), 1A957
Optimal orientation of orthotropic materials using an energy based method, Struct Optim **15**(3-4) 230-236 (Jun 1998), 1A958
Optimization of local heating for a spherical shell made of titanium alloy BT-23, Arch Mech **50**(1) 113-126 (1998), 1A959
Optimization of the stiffness of glued laminated timber beams with respect to the technology of fabrication and creep parameters, Appl Mech Eng **2**(3) 433-443 (1997), 1T960
Outer approximations approach to reliability-based optimal design of structures, J Optim Theory Appl **98**(1) 1-16 (Jul 1998), 1T961
Random set approach to the optimization of uncertain structures, Comput Struct **68**(6) 583-600 (Sep 1998), 1A962
Sensitivity analysis and optimal design of nonlinear structures, Int J Numer Methods Eng **42**(7) 1231-1262 (Aug 1998), 1A963
Shape design optimization of thermoelastic structures for durability, J Mech Des **120**(3) 491-500 (Sep 1998), 1A964
Shape optimization using Weibull statistics of brittle failure, Struct Optim **15**(3-4) 208-214 (Jun 1998), 1A965
Static condensation in modal-based structural optimization, Struct Optim **15**(3-4) 275-283 (Jun 1998), 1A966
Stiffness-based optimal design of tall steel frameworks subject to lateral loading, Struct Optim **15**(3-4) 180-186 (Jun 1998), 1A967
Stresses, stress sensitivities and shape optimization in 2D linear elasticity by the boundary contour method, Int J Numer Methods Eng **42**(8) 1391-1407 (Aug 1998), 1A968
Two dimensional shape optimization with static and dynamic constraints, Struct Optim **15**(3-4) 201-207 (Jun 1998), 1A969
Approximate resizing system for the preliminary design of reinforced concrete frames, Struct Optim **15**(3-4) 242-250 (Jun 1998), 1A981
Use of dynamic characteristics for the optimal design of arches, Comput Struct **68**(5) 461-472 (Sep 1998), 1A1008
Modified Dempster-Shafer theory for multicriteria optimization, Eng Optim **30**(3-4) 177-201 (May 1998), 1A1052
Finite element modeling and optimization for controlling the residual thermal stresses of laminated composite tubes, Composite Struct **41**(2) 151-157 (Feb 1998), 2A32
Design of dimensionally stable composites by evolutionary optimization, Composite Struct **41**(2) 97-111 (Feb 1998), 2A670
Cross-sectional shape multiplier method for optimum design of structures with beam elements, Chinese J Comput Mech **15**(3) 316-323 (Aug 1998), 2T925
Discrete energy formulation for the definition of optimal tension structures, Struct Optim **16**(1) 76-80 (Aug 1998), 2A926
Effectiveness of optimal design with respect to computational models for laminated composite structures weakened by holes, Struct Optim **16**(1) 58-67 (Aug 1998), 2A927
Integrated structure-electromagnetic optimization of large reflector antenna systems, Struct Optim **16**(1) 29-36 (Aug 1998), 2A928
Maximization of the crushing energy absorption of tubes, Struct Optim **16**(1) 37-46 (Aug 1998), 2A929
Min-max dynamic response optimization of mechanical systems using approximate augmented Lagrangian, Int J Numer Methods Eng **43**(3) 549-564 (Oct 1998), 2A930
MINLP optimization approach to structural synthesis - Part I: A general view on simultaneous topology and parameter optimization, Int J Numer Methods Eng **43**(2) 263-292 (Sep 1998), 2A931
MINLP optimization approach to structural synthesis - Part II: Simultaneous topology, parameter and standard dimension optimization by the use of the linked two-phase MINLP strategy, Int J Numer Methods Eng **43**(2) 293-328 (Sep 1998), 2A932
MINLP optimization approach to structural synthesis - Part III: Synthesis of roller and sliding hydraulic steel gate structures, Int J Numer Methods Eng **43**(2) 329-364 (Sep 1998), 2A933
Numerical instabilities in topology optimization: A survey on procedures dealing with checkerboards, mesh-dependencies and local minima, Struct Optim **16**(1) 68-75 (Aug 1998), 2A934
Optimal design of supports in beam and frame structures, Struct Optim **16**(1) 47-57 (Aug 1998), 2A935
Optimum design of a vibrating plate with respect to this thickness and eigen-frequencies, Comput Assisted Mech Eng Sci **5**(2) 139-150 (1998), 2A936
Structural approximate reanalysis for topological modifications of FE systems, AIAA J **36**(9) 1760-1762 (Sep 1998), 2T937
Topology optimization of 3D structures using optimum microstructures, Struct Optim **16**(1) 1-18 (Aug 1998), 2A938
Shape optimization of unconstrained viscoelastic layers using continuum FEs, J Sound Vib **216**(1) 29-52 (Sep 1998), 3A130
Optimal design of general stiffened composite circular cylinders for global buckling with strength constraints, Composite Struct **41**(3-4) 243-252 (Mar-Apr 1998), 3A642
Application of dual kriging to structural shape optimization based on the boundary contour method, Arch Appl Mech **68**(7-8) 539-551 (Sep 1998), 3A877
Application of optimization shells to design problems, Ship Tech Res **45**(3) 88-95 (Jul 1998), 3A878

Buckling optimization of unidirectional composites with graded structures for weight reduction, Polymers and Polymer Composites **6**(1) 25-32 (1998), 3A879
New adaptive move-limit management strategy for approximate optimization: Part 1, AIAA J **36**(10) 1911-1921 (Oct 1998), 3A880
New adaptive move-limit management strategy for approximate optimization: Part 2, AIAA J **36**(10) 1922-1934 (Oct 1998), 3A881
Optimum design of unbraced rigid frames, Comput Struct **69**(4) 433-442 (Nov 1998), 3A882
Shape optimization of umbrella-shaped concrete shells subjected to self-weight as the dominant load, Comput Struct **69**(4) 513-524 (Nov 1998), 3A883
Shape-optimium design of a bi-material single-lap joint, Composite Struct **41**(3-4) 315-330 (Mar-Apr 1998), 3A884
Shape optimization of a vehicle speed control bump, Mech Struct Machines **26**(3) 319-342 (1998), 3A986
Analysis and optimization in structural acoustics - Part I: Problem formulation and solution techiques, Struct Optim **16**(2-3) 83-95 (Oct 1998), 4A866
Analysis and optimization in structural acoustics - Part II: Exemplifications for axisymmetric structures, Struct Optim **16**(2-3) 96-107 (Oct 1998), 4A867
Application of genetic algorithms to the design optimization of an active vehicle suspension system, Comput Methods Appl Mech Eng **163**(1-4) 87-94 (Sep 1998), 4A868
Boundary integral equation approach for shape sensitivity analysis of elastic and thermoelastic solids, Strojnicky Casopis **49**(5) 332-353 (1998), 4A869
Energy model for the optimal design of linear continuum structures, Struct Optim **16**(2-3) 116-127 (Oct 1998), 4A870
General approach forcing convexity of ply angle optimization in composite laminates, Struct Optim **16**(2-3) 201-211 (Oct 1998), 4A871
Improvements on objective and constraint functions in domain optimization, Comput Methods Appl Mech Eng **163**(1-4) 271-291 (Sep 1998), 4A872
Integrated structural and control optimization of intelligent structures, Eng Struct **21**(2) 183-191 (Feb 1999), 4A873
Method for treating damage related criteria in optimal topology design of continuum structures, Struct Optim **16**(2-3) 108-115 (Oct 1998), 4A874
Minimum weight shape and size optimization of truss structures made of uncertain materials, Struct Optim **16**(2-3) 147-154 (Oct 1998), 4A875
Multidisciplinary optimization of cast components regarding process characteristics, Struct Optim **16**(2-3) 212-225 (Oct 1998), 4A876
Optimal design of a horizontal circular tank with ellipsoidal heads, Struct Optim **16**(2-3) 226-229 (Oct 1998), 4A877
Optimal design of arch bridges by integrating genetic algorithms and the mechanism method, Eng Struct **21**(1) 75-82 (Jan 1999), 4A878
Optimality conditions for least-weight truss layouts, Struct Optim **16**(2-3) 186-192 (Oct 1998), 4A879
Optimality of a fully stressed design, Comput Methods Appl Mech Eng **165**(1-4) 215-221 (Nov 1998), 4A880
Optimization design method for large scale structures, Comput Methods Appl Mech Eng **165**(1-4) 273-289 (Nov 1998), 4A881
Optimization of symmetric laminates with internal line supports for maximum buckling load, Struct Eng and Mech **6**(6) 633-641 (Sep 1998), 4A882
Parallel implementation of large-scale structural optimization, Struct Optim **16**(2-3) 176-185 (Oct 1998), 4A883
Reliability-based structural optimization under hazard loads, Struct Optim **16**(2-3) 128-135 (Oct 1998), 4A884
Truss optimization considering homologous deformation under multiple loadings, Struct Optim **16**(2-3) 193-200 (Oct 1998), 4A885
Use of genetic algorithms for the vibroacoustic optimization of a plate carrying point-masses, J Acoust Soc Am **104**(6) 3385-3397 (Dec 1998), 5A134
Review: Optimal shock and vibration isolation, Shock Vib **5**(2) 73-87 (1998), 5A167
Optimization of structures in unilateral contact, Appl Mech Rev **52**(4) 139-160 (Apr 1999), 5A438
Characteristics of multiple tuned liquid column dampers in suppressing structural vibration, Eng Struct **21**(4) 316-331 (Apr 1999), 5A766
Discrete structural geometrical optimal design using genetic algorithms (Chinese), Chinese J Comput Mech **15**(4) 485-489 (Nov 1998), 5A767
Optimal design of quasi-brittle elastic bodies with cracks, Mech Struct Machines **26**(4) 365-376 (1998), 5A768
Optimum design of laminated composite plates with cutouts using a genetic algorithm, Composite Struct **42**(3) 265-279 (Jul 1998), 5A769
Topology optimization of continuum structures with local stress constraints, Int J Numer Methods Eng **43**(8) 1453-1478 (Dec 1998), 5A770
Use of the active member concept in vibration mitigation of seismic structures, Eng Struct **21**(4) 341-351 (Apr 1999), 5A771
Optimal bead orientation of 3D shell-plate structures, Finite Elements Anal Des **31**(1) 55-71 (Nov 1998), 6A20
Optimal nose geometry for a rigid penetrator, Comput Mech **22**(5) 413-417 (Dec 1998), 6A237
Knowledge-based search framework for designing composite structures, Struct Optim **16**(4) 289-299 (Dec 1998), 6A624
Variable complexity design of composite fuselage frames by response surface techniques, Thin-Walled Struct **32**(4) 235-261 (Dec 1998), 6A629
Tallest column: Optimality revisited, J Comput Appl Math **101**(1-2) 27-37 (Jan 1999), 6A688
Construction of response surface approximations for design optimization, AIAA J **36**(12) 2242-2249 (Dec 1998), 6A1009
Domain decomposition methods for parallel solution of shape sensitivity analysis problems, Int J Numer Methods Eng **44**(2) 281-303 (Jan 1999), 6A1010
Dynamic design of structures under random excitation, Comput Mech **22**(5) 388-394 (Dec 1998), 6A1011
Effective two-point function approximation for design optimization, AIAA J **36**(12) 2269-2275 (Dec 1998), 6A1012
Generation of moving structural systems in multiple evolutionary environments, Struct Optim **16**(4) 258-268 (Dec 1998), 6A1013
Multicriteria optimization of parametrically excited systems against loss of dynamic stability, Struct Optim **16**(4) 269-274 (Dec 1998), 6A1014
Multiobjective and multilevel optimization for steel frames, Eng Struct **21**(6) 519-529 (Jun 1999), 6A1015
Optimal configuration design of structures using the binary enumeration technique, Finite Elements Anal Des **31**(1) 15-32 (Nov 1998), 6A1016
Optimal design of compressed beams with an additional lateral support, Struct Optim **16**(4) 275-279 (Dec 1998), 6A1017
Optimal design of passive energy dissipation devices for seismic protection of bridges (Japanese), Proc JSCE **605**(I-45) 241-252 (Oct 1998), 6A1018
Optimal joint positions and stiffness distribution for minimum mass frames with damping constraints, Struct Optim **16**(4) 231-245 (Dec 1998), 6A1019
Optimization of imperfection-sensitive symmetric systems for specified maximum load factor, Comput Methods Appl Mech Eng **166**(3-4) 349-362 (Nov 1998), 6A1020
Preference aggregation rule approach for structural optimization, Struct Optim **16**(4) 246-257 (Dec 1998), 6A1021
Selection of optimal parameters of multilayer plates at nonstationary loadings, Meccanica **33**(6) 553-564 (Dec 1998), 6A1022
Systematic topology optimization approach for optimal stiffener design, Struct Optim **16**(4) 280-288 (Dec 1998), 6A1023
Optimization Concepts and Applications in Engineering (Prentice Hall, Upper Saddle River, NJ, 1999) 7N3
Optimal design of internal ring supports for vibrating circular plates, J Sound Vib **219**(3) 525-537 (Jan 1999), 7A153
Mathematical optimization methodology for the optimal design of a planar robotic manipulator, Int J Numer Methods Eng **44**(4) 535-550 (Feb 1999), 7A420
Optimal material design in composites: An iterative approach based on homogenized cells, Comput Methods Appl Mech Eng **169**(1-2) 31-42 (Jan 1999), 7A544
Analytical shape sensitivity computation using hybrid FEs, Comput Struct **70**(3) 281-297 (Feb 1999), 7A805
Combined structural and manufacturing optimization of stiffened composite panels, J Aircraft **36**(1) 246-254 (Jan-Feb 1999), 7A806
Computational approach for analysis and optimal design of FRP beams, Comput Struct **70**(2) 169-183 (Jan 1999), 7A807
Coupled multidisciplinary optimization of engine structural performance, J Aircraft **36**(1) 190-199 (Jan-Feb 1999), 7A808
Design sensitivity analysis in linear elasticity by the boundary contour method, Eng Anal Boundary Elements **23**(2) 195-199 (Feb 1999), 7A809
Nongradient methods in multidisciplinary design optimization: Status and potential, J Aircraft **36**(1) 255-265 (Jan-Feb 1999), 7A810
Novel node-based structural shape optimization algorithm, Comput Struct **70**(5) 569-581 (Mar 1999), 7A811
Optimal design of symmetric laminates with cut-outs for maximum buckling load, Comput Struct **70**(3) 337-343 (Feb 1999), 7A812
Optimal structure design based on self-similarity, AIAA J **37**(1) 110-117 (Jan 1999), 7A813
Optimum design of composite plates using response surface method, Composite Struct **43**(3) 233-242 (Nov 1998), 7A814
Regional genetic algorithm for the discrete optimal design of truss structures, Int J Numer Methods Eng **44**(6) 749-766 (Feb 1999), 7A815
Structural design optimization status and direction, J Aircraft **36**(1) 11-20 (Jan-Feb 1999), 7A816
Structural optimization with thermal and mechanical constraints, J Aircraft **36**(1) 29-35 (Jan-Feb 1999), 7A817
Structural shape optimization using MSC-NASTRAN and sequential quadratic programming, Comput Struct **70**(5) 487-514 (Mar 1999), 7A818
Symmetry reduction method for continuum structural topology optimization, Comput Struct **70**(1) 47-61 (Jan 1999), 7A819
Use of fracture mechanics and shape optimization for component designs, AIAA J **37**(2) 255-260 (Feb 1999), 8A805
Buckling optimization of unsymmetrically laminated plates under transverse loads, Struct Eng and Mech **7**(1) 19-33 (Jan 1999), 8A829
CAD-based design parameterization for shape optimization of elastic solids, Adv Eng Software **30**(3) 185-199 (Mar 1999), 8A830
Evolutionary approach for layout: Optimization of truss structures, Int J Space Struct **13**(3) 145-155 (1998), 8A831
Evolutionary method for optimal design of plates with discrete variable thicknesses subject to constant weight, Struct Optim **17**(1) 55-64 (Feb 1999), 8A832
Optimal laminate design subject to single membrane loads, Struct Optim **17**(1) 65-73 (Feb 1999), 8A833
Optimal placement of a proof mass actuator for active structural acoustic control, Mech Struct Machines **27**(1) 23-35 (1999), 8A834
Optimal topology and configuration design of trusses with stress and buckling constraints, Struct Optim **17**(1) 25-35 (Feb 1999), 8A835
Optimum structure design for improving the dynamics of flexible-link manipulators, Int J Robotics Autom **13**(4) 125-131 (1998), 8A836
Reliability-based on structural optimization and "strong column-weak beam" (Chinese), J Dalian Univ Tech **38**(6) 625-631 (Nov 1998), 8A837
Sensitivities of multiple singular values for optimal geometries of precision structures, Int J Solids Struct **36**(15) 2217-2230 (May 1999), 8A838
Sensitivity analysis for transient heat conduction in a solid body - Part I: External boundary modification, Struct Optim **17**(1) 36-45 (Feb 1999), 8A839
Sensitivity analysis for transient heat conduction in a solid body - Part II: Interface modification, Struct Optim **17**(1) 46-54 (Feb 1999), 8A840
Sensitivity and optimization procedures for truss structures under large displacement, Struct Eng and Mech **7**(1) 111-126 (Jan 1999), 8A841
Study of structure optimization of steam-power systems (Chinese), J Dalian Univ Tech **38**(6) 687-690 (Nov 1998), 8A842
Topology optimization using a dual method with discrete variables, Struct Optim **17**(1) 14-24 (Feb 1999), 8A843
Using the two-branch tournament genetic algorithm for multiobjective design, AIAA J **37**(2) 261-267 (Feb 1999), 8A844
New optical pickup suspension design, Int J Solids Struct **36**(17) 2541-2556 (Jun 1999), 8A944
Other side of multidisciplinary design optimization: Accomodating a multiobjective, uncertain and non-deterministic world, Eng Optim **31**(2) 161-189 (Dec 1998), 8A946
Optimal hole profile in a finite plate under uniaxial stress by FE simulation of Durelli's photoelastic stress minimization method, Finite Elements Anal Des **32**(1) 1-20 (Mar 1999), 9A30
Design, analysis, and optimization of composite leaf springs for light vehicle applications, Composite Struct **44**(2-3) 195-204 (Feb-Mar 1999), 9A665
Tabu search coupled with deterministic strategies for the optimal design of MRI devices, Int J Appl Electromagnetics Mech **10**(1) 21-31 (Feb 1999), 9A744
Convergence results in perimeter-controlled topology optimization, Comput Methods Appl Mech Eng **171**(1-2) 123-140 (Mar 1999), 9A960
Formulation for optimal continuum structures with a decomposition of material properties into specified and designable parts, Control and Cybernetics **27**(2) 255-264 (1998), 9A961
Fuzzy optimization design of axisymmetrically loaded thin shells of revolution, Struct Eng and Mech **7**(3) 277-288 (Mar 1999), 9A962
Hopfield neuron based nonlinear constrained programming to fuzzy structural engineering optimization, Struct Eng and Mech **7**(5) 485-502 (May 1999), 9A963
Method of optimization of structures, Exp Tech **23**(2) 26-30 (Mar-Apr 1999), 9A964
Optimization of catenary risers, J Offshore Mech Arctic Eng **121**(2) 90-94 (May 1999), 9A965
Optimum design of cable-stayed bridges, Struct Eng and Mech **7**(3) 241-257 (Mar 1999), 9A966
Optimum design of single core shear walls, Comput Struct **71**(2) 143-162 (Apr 1999), 9A967
Pareto optimum tests, Comput Struct **71**(1) 35-42 (Apr 1999), 9A968
Probabilistic approaches for optimal beam design based on fracture mechanics, Meccanica **34**(1) 29-38 (Feb 1999), 9A969
Simultaneously evolutionary optimization of several natural frequencies of a 2D structure, Struct Eng and Mech **7**(5) 447-456 (May 1999), 9A970
Structural optimization with a non-smooth buckling load criterion, Control and Cybernetics **27**(2) 235-253 (1998), 9A971
Topological optimization using genetic algorithms, evolution strategies, and population-based incremental learning (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 427-438 (1998), 9A972
Two-stage approach for structural topology optimization, Adv Eng Software **30**(4) 260-271 (Apr 1999), 9A973
Optimal strength design of the wound pressure vessel considering nonhomogeneous temperature field, Int J Pressure Vessels Piping **76**(3) 157-162 (Mar 1999), 9A1017
Structural optimization considering flexibility: Integrated design method for compliant mechanisms, JSME Int J Ser C **41**(3) 476-484 (Sep 1998), 9A1079
Computer Aided Optimum Design of Structures (Comput Mech, Billerica MA, 1999) 10N17
Selected papers presented at the second China-Australia symposium on computational mechanics, Struct Eng and Mech **7**(6) 533-614 (Jun 1999), 10T64
Synthesis of layered shells from a finite set of viscoelastic materials, J Austral Math Soc B **40**(4) 525-534 (Apr 1999), 10A698
Optimal stabilization of plate buckling, Smart Mat Struct **8**(2) 204-211 (Apr 1999), 10A719
Multicriteria fuzzy optimization of structural systems, Int J Numer Methods Eng **45**(2) 195-214 (May 1999), 10A975
Optimal shape design of 3D MEMs with applications to electrostatic comb drives, Int J Numer Methods Eng **45**(2) 175-194 (May 1999), 10A976
Optimization of variable thickness plates by genetic algorithms, Eng Trans **46**(1) 115-129 (1998), 10A977
Structural shape optimization using evolution strategies, Eng Optim **31**(4) 515-540 (Mar 1999), 10A978
Shape optimization by the BEM with a reduced basis reanalysis technique, Struct Eng and Mech **8**(1) 73-84 (Jul 1999), 11A77
Geometrically nonlinear elastic analysis of space trusses, Struct Eng and Mech **7**(4) 345-360 (Apr 1999), 11A557
Aspects of the optimal shape design problems, J Vib and Control **5**(3) 401-419 (May 1999), 11A855
Axiomatic approach to the multicriteria structural optimization, Comput Assisted Mech Eng Sci **5**(3) 245-251 (1998), 11A856
Composite wing optimization for enhancement of the rolling maneuver in subsonic flow, Struct Optim **17**(2-3) 95-103 (Apr 1999), 11A857
Design model to predict optimal two-material composite structures, Struct Optim **17**(2-3) 186-198 (Apr 1999), 11A858
Design optimization of variable stroke compressors to minimize vibration by using asymptotic analysis, J Vib and Control **5**(3) 461-474 (May 1999), 11A859
Developments of sizing sensitivity analysis with the ABAQUS code, Struct Optim **17**(2-3) 219-225 (Apr 1999), 11A860
Energy-minimizing inclusions in a planar elastic structure with macroisotropy, Struct Optim **17**(2-3) 104-112 (Apr 1999), 11A861
Hybrid deterministic-stochastic optimization approach for the shape configuration design of structures, Struct Optim **17**(2-3) 113-129 (Apr 1999), 11A862
Hybrid optimization strategy beyond local optima in aerospace panel designs, AIAA J **37**(5) 588-593 (May 1999), 11A863
Implementation of the harmonic transformation method in shape optimization, Comput Assisted Mech Eng Sci **5**(3) 285-298 (1998), 11A864
Numerical solution of a class of unilateral contact structural optimization problems, Struct Optim **17**(2-3) 155-161 (Apr 1999), 11A865
Optimal design of elastic-plastic structures with post-critical behavior, Struct Optim **17**(2-3) 147-154 (Apr 1999), 11A866
Optimal fastener pattern design considering bearing loads, Struct Optim **17**(2-3) 140-146 (Apr 1999), 11A867
Optimal topology design of structures under dynamic loads, Struct Optim **17**(2-3) 208-218 (Apr 1999), 11A868
Optimization of nonhomogeneous facesheets in composite sandwich plates, Struct Optim **17**(2-3) 199-207 (Apr 1999), 11A869
Optimum design of a 3D serial robot manipulator, Struct Optim **17**(2-3) 172-185 (Apr 1999), 11A870
Reverse adaptivity: A new evolutionary tool for structural optimization, Int J Numer Methods Eng **45**(5) 529-552 (Jun 1999), 11A871
Simplification of optimization problem of spatial bar structures (Polish), Inzynieria Budownictwo **54**(10) 562-566 (1998), 11A872
Solution of a minimum weight elastoplastic problem involving displacement and complementarity constraints, Comput Methods Appl Mech Eng **174**(1-2) 107-120 (May 1999), 11A873

Structural shape sensitivity analysis for nonlinear material models with strain softening, Struct Optim **17**(2-3) 162-171 (Apr 1999), 11A874
Topology and shape optimization of continuum structures using GA and BEM, Struct Optim **17**(2-3) 130-139 (Apr 1999), 11A875
Two dimensional shape optimization using genetic algorithm, Comput Assisted Mech Eng Sci **5**(3) 311-321 (1998), 11A876
Reliability-based optimization of laterally loaded piles, Struct Safety **21**(1) 45-64 (1999), 11A887
New reflection generator for simulated annealing in mixed-integer-continuous global optimization, J Optim Theory Appl **101**(2) 403-427 (May 1999), 12T390
Load and resistance convex models for optimum design, Struct Optim **17**(4) 259-268 (Jun 1999), 12A888
Local stability of trusses in the context of topology optimization - Part I: Exact modeling, Struct Optim **17**(4) 235-246 (Jun 1999), 12A889
Local stability of trusses in the context of topology optimization - Part II: A numerical approach, Struct Optim **17**(4) 247-258 (Jun 1999), 12A890
Newton's mesh independence principle for a class of optimal shape design problems, SIAM J Control Optim **37**(4) 1070-1088 (Apr 1999), 12T891
Optimal geometries of shape controlled structures, Mech Struct Machines **27**(2) 143-162 (1999), 12A892
Optimization of 2D structures subjected to nonlinear deformations using the homogenization method, Struct Optim **17**(4) 286-299 (Jun 1999), 12A893
Physics-based parameterization method for shape optimization, Comput Methods Appl Mech Eng **175**(1-2) 41-51 (Jun 1999), 12A894
Smoothing scheme for a minimum weight problem in structural plasticity, Struct Optim **17**(4) 279-285 (Jun 1999), 12A895
Stress model for multiobjective design optimization of a power electronic module, Mech Struct Machines **27**(2) 163-183 (1999), 12A896
Topological derivative in shape optimization, SIAM J Control Optim **37**(4) 1251-1272 (Apr 1999), 12T897
Topology optimization of compliant mechanisms with multiple outputs, Struct Optim **17**(4) 269-278 (Jun 1999), 12A898
Optimization of the fast craft deck structure by the genetic algorithms, Marine Tech Trans **9** 165-188 (1998), 12A953

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Adaptive control of wind-induced vibration of flexible civil structures: Methods and experiments (Chinese), J Vib Eng **11**(2) 131-137 (Jun 1998), 1A970
Integrated structural-control optimization of large adaptive-smart structures, Int J Solids Struct **35**(28-29) 3815-3830 (Oct 1998), 1A971
Multivariant model for single crystal shape memory alloy behavior, J Mech Phys Solids **46**(8) 1379-1409 (Aug 1998), 1A972
Papers from a one day seminar - Smart materials and systems: Applications and recent developments, held at the IMechE Headquarters on April 10, 1997, J Syst Control Eng **212**(I3) 149-238 (1998), 1T973
Study of dynamic model and control of a flexible beam (Chinese), J Vib Eng **11**(2) 152-157 (Jun 1998), 1A974
Design guidelines of truss structures for damping control (Chinese), J Vib Eng **11**(2) 144-151 (Jun 1998), 1A997
Simulation of the superelastic response of SMA orthodontic wires, J Biomech Eng **120**(5) 676-685 (Oct 1998), 1A1546
IUTAM Symposium on Transformation Problems in Composite and Active Materials (Kluwer, Netherlands, 1998) 2N12
Active vibration control of flexural-shear type frame structures with smart structures using piezoelectric actuators, Smart Mat Struct **7**(4) 479-488 (Aug 1998), 2A167
Structural vibration control using PZT patches and nonlinear phenomena, J Sound Vib **215**(2) 273-296 (Aug 1998), 2A179
Smart internal vibration suppressor for a helicopter blade: A feasibility study, J Sound Vib **215**(2) 211-229 (Aug 1998), 2A203
Design and performance of an electrostrictive-polymer-film acoustic actuator, J Sound Vib **215**(2) 297-311 (Aug 1998), 2A447
Performance of optical sensors in the control of flexible structures, J Intelligent Mat Syst Struct **8**(11) 920-928 (Nov 1997), 2A537
Practical design and verification of LQG controllers as applied to active structures, J Intelligent Mat Syst Struct **8**(11) 960-985 (Nov 1997), 2A538
Spatially convolving wave propagation sensors for structural control - Part I: Analytical development for 1D structures, J Intelligent Mat Syst Struct **8**(11) 929-952 (Nov 1997), 2A539
Dynamic modeling of a smart materials robot, AIAA J **36**(8) 1466-1478 (Aug 1998), 2A564
One-dimensional pseudoelastic theory of shape memory alloys, Smart Mat Struct **7**(4) 489-495 (Aug 1998), 2A615
Adaptive shape control of laminated composite plates using piezoelectric materials, AIAA J **36**(9) 1694-1698 (Sep 1998), 2A939
Fabrication and transformation characteristics of reversible shape memory alloy thin film actuators, Int J Japan Soc Precision Eng **32**(2) 110-115 (Jun 1998), 2A940
Finite element analysis and control simulation of laminate shell containing piezoelectric patches, Chinese J Comput Mech **15**(3) 329-337 (Aug 1998), 2T941
Motion control of adaptive space structures based on artificial potential method, J Spacecraft Rockets **35**(4) 496-501 (Jul-Aug 1998), 2A942
Piezoceramic actuated aperture antennae, Smart Mat Struct **7**(4) 537-542 (Aug 1998), 2A943
Piezoelectric paints as one approach to smart structural materials with health-monitoring capabilities, Smart Mat Struct **7**(4) 438-445 (Aug 1998), 2A944
Smart marine structures: An approach to the monitoring of ship structures with fiber-optic sensors, Smart Mat Struct **7**(4) 472-478 (Aug 1998), 2A945
Smart materials and structures - A FE approach: A bibliography 1986-1997, Model Simulation Mat Sci Eng **6**(3) 293-334 (May 1998), 2A946
Active response control of buildings for large earthquakes: Seismic response control system with variable structural characteristics, Smart Mat Struct **7**(4) 522-529 (Aug 1998), 2A1465
Analysis of non-selfadjoint control of thin elastic plates in the presence of conservative in-plane forces, Arch Appl Mech **68**(7-8) 501-512 (Sep 1998), 3A885
Influence of strain rate on superelastic properties of TiNi shape memory alloy, Mech Mat **30**(2) 141-150 (Oct 1998), 3A886
Proof-of-concept investigation on active vibration control of hybrid smart structures, Mechatronics **8**(6) 673-689 (Sep 1998), 3A887
Research on fuzzy active vibration control of flexible structure (Chinese), J Vib Eng **11**(3) 265-272 (Sep 1998), 3T888
Reliability of the piezoelectric layer application to vibration and noise controls, J Vib Acoust **121**(1) 137-139 (Jan 1999), 4A132
Analysis of an infinite shape memory alloy plate with a circular hole subjected to biaxial tension, Int J Solids Struct **36**(1) 167-178 (Jan 1999), 4A643
Dynamic modeling and neural control of composite shells using piezoelectric devices, J Intelligent Mat Syst Struct **9**(1) 29-43 (Jan 1998), 4A655
Integrated structural and control optimization of intelligent structures, Eng Struct **21**(2) 183-191 (Feb 1999), 4A873
Active control of partially filled, elastically mounted centrifuges, J Brazilian Soc Mech Sci **20**(3) 454-464 (Sep 1998), 4A886
Design of piezoactuator placements in composite adaptive structure (Chinese), J Shanghai Jiaotong Univ **32**(7) 125-127 (Jul 1998), 4A887
Polymer surfaces, interfaces, and computer modeling: An investigation of new intelligent materials for sensing application, J Intelligent Mat Syst Struct **9**(1) 74-78 (Jan 1998), 4A888
Sensitivity analysis of smart structures, Comput Methods Appl Mech Eng **163**(1-4) 311-322 (Sep 1998), 4A889
Smart materials and structures technology: Application to large civil infrastructure, Smart Mat Struct **7**(5) 581-743 (Oct 1998), 4T890
Vibration damping control of intelligent truss structure (Chinese), J Xi'an Jiaotong Univ **32**(10) 75-78 (1998), 4A891
Numerical analysis of damping structures with active-passive constrained layer (Chinese), Chinese J Comput Mech **15**(4) 423-428 (Nov 1998), 5T27
Effectiveness of TLCD on various structural systems, Eng Struct **21**(4) 291-305 (Apr 1999), 5A772
Laminated shells with actuation strains: General theory and applications, Arch Appl Mech **68**(9) 637-649 (Nov 1998), 5A773
Recent advances in sensing and control of flexible structures via piezoelectric materials technology, Appl Mech Rev **52**(1) 1-16 (Jan 1999), 5A774
Theory of Adaptive Structures: Incorporating Intelligence into Engineered Products (CRC Press, Boca Raton FL, 1998) 6R18
Adaptive Structures and Materials Systems - 1998 (ASME, New York, 1998) 6N19
Experimental investigation of the pseudoelastic hysteresis damping characteristics of shape memory alloy wires, J Intelligent Mat Syst Struct **9**(2) 116-126 (Feb 1998), 6A124
Fuzzy logic control of bridge structures using intelligent semi-active seismic isolation systems, Earthquake Eng Struct Dyn **28**(1) 37-60 (Jan 1999), 6A127
Mass dampers and their optimal designs for building vibration control, Eng Struct **21**(5) 454-463 (May 1999), 6A130
Optimal control of laminated plate with piezoelectric sensor and actuator layers, AIAA J **36**(12) 2204-2208 (Dec 1998), 6A133
Vibration control of a rotor system by disk type electrorheological damper, J Sound Vib **219**(1) 175-188 (Jan 1999), 6T140
Induced vibrations of piezolaminated elastic beams, Composite Struct **43**(1) 47-55 (Sep 1998), 6A145
Study of active suspension control algorithm based on frequency-shaping performance index (Chinese), J Tsinghua Univ Sci Tech **38**(8) 83-87 (Aug 1998), 6A208
Fuzzy model reference learning control: A new control paradigm for smart structures, Smart Mat Struct **7**(6) 874-884 (Dec 1998), 6A353
Nonlinear dynamic strain analysis on rotor blade structures with embedded piezoceramic sensors for active vibration control, Mechatronics **8**(8) 805-820 (Dec 1998), 6A429
Stress stiffening effects in laminated beams with piezoelectric actuators, J Intelligent Mat Syst Struct **9**(2) 137-145 (Feb 1998), 6A721
Limit load solution for cracked tubular T-joints loaded in tension, Fatigue Fracture Eng Mat Struct **21**(10) 1249-1257 (1998), 6A972
Active vibration control of buildings with smart structures, Int J Japan Soc Precision Eng **32**(3) 160-165 (Sep 1998), 6A1024
Actuation of elastomeric rods with embedded two-way shape memory alloy actuators, Smart Mat Struct **7**(6) 771-783 (Dec 1998), 6A1025
Design and development of smart microstrip patch antennas, Smart Mat Struct **7**(6) 792-800 (Dec 1998), 6A1026
Optimal design of a piezoelectric smart structure for noise control, Smart Mat Struct **7**(6) 801-808 (Dec 1998), 6A1027
Oriental self-organization in nematic thin film layer sandwiched between conducting isotropic substrates, Smart Mat Struct **7**(6) 894-898 (Dec 1998), 6A1028
Semi-active control systems for seismic protection of structures: A state-of-the-art review, Eng Struct **21**(6) 469-487 (Jun 1999), 6A1029
Shape control of a composite beam with embedded shape memory alloy wire actuators, Smart Mat Struct **7**(6) 759-770 (Dec 1998), 6A1030
Shape fixity and shape recovery in a film of shape memory polymer of polyurethane series, J Intelligent Mat Syst Struct **9**(2) 127-136 (Feb 1998), 6A1031
Study on the application of magnetostrictive actuator for active vibration control, J Vib Eng **11**(4) 381-388 (Dec 1998), 6T1032
Intelligent structure of concrete reinforced by CFRP, J Soc Mat Sci Japan **47**(11) 1183-1187 (Nov 1998), 6A1038
Sensor and actuator for intelligent structure of concrete reinforced by CFRP, J Soc Mat Sci Japan **47**(11) 1178-1182 (Nov 1998), 6A1040
Field test of an intelligent stiffener for bridges at the I-35 Walnut Creek bridge, Earthquake Eng Struct Dyn **28**(2) 109-126 (Feb 1999), 7A124
Optimal placement of DVFC controllers on buildings subjected to earthquake loading, Earthquake Eng Struct Dyn **28**(2) 127-141 (Feb 1999), 7A177
Evolutionary design of controlled structures, J Aircraft **36**(1) 209-217 (Jan-Feb 1999), 7A379
Expected residual vibration of traditional and hybrid input shaping designs, J Guidance Control Dyn **22**(1) 162-165 (Jan-Feb 1999), 7T380
Modeling and control of a flexible structure incorporating inertial slip-stick actuators, J Guidance Control Dyn **22**(1) 36-42 (Jan-Feb 1999), 7A383
Robust distributed controller of a single-link SCARA-Cartesian smart materials robot, Mechatronics **9**(1) 65-93 (Feb 1999), 7A397
Laminated composite plates with integrated sensors and actuators, Eng Struct **21**(7) 568-593 (Jul 1999), 7A573
Are really smart materials intelligent? (Japanese), J Soc Mat Sci Japan **47**(12) 1308-1309 (Dec 1998), 7T820
Deflection control of laminated composite beams with piezoceramic layers: Closed form solutions, Composite Struct **43**(3) 217-231 (Nov 1998), 7A821
H_∞ control state feedback and Rayleigh quotient precise integration (Chinese), Chinese J Comput Mech **16**(1) 1-7 (Feb 1999), 7A822
Instantaneous optimal control for seismic analysis of nonlinear structures, J Earthquake Eng **3**(1) 83-106 (Jan 1999), 7A823
Residual deformation of active structures with SMA actuators, Int J Mech Sci **41**(6) 595-619 (Jun 1999), 7A824
Sizing a hydromechanical servodrive for the active control of the runnability of cable-stayed bridges: Trade-off between different techniques, Appl Math Model **23**(3) 175-198 (Mar 1999), 7A825
Special Issue: Third US Army Research Office Workshop on Smart Structures, J Intelligent Mat Syst Struct **9**(3) 160-237 (Mar 1998), 7T826
Characterization of the pseudoelastic damping behavior of shape memory alloy wires using complex modulus, Smart Mat Struct **8**(1) 49-56 (Feb 1999), 8A112
Experimental investigation of different actuator technologies for active vibration control, Smart Mat Struct **8**(1) 145-153 (Feb 1999), 8A114
Structural damping characteristics of active piezoelectric actuators with passive shunt, J Sound Vib **221**(1) 1-22 (Mar 1999), 8A120
Vibration control simulation of laminated composite plates with integrated piezoelectrics, J Sound Vib **220**(5) 827-846 (Mar 1999), 8A123
H_∞ control of structure-borne noise of a plate featuring piezoceramic actuators, Smart Mat Struct **8**(1) 1-12 (Feb 1999), 8A330
Adaptive control of space structures via recurrent neural networks, Dyn Control **9**(1) 5-20 (Jan 1999), 8A419
Vibration and actuation characteristics of composite structures with a bonded piezo-ceramic actuator, Smart Mat Struct **8**(1) 136-143 (Feb 1999), 8A612
Active control of a beam using a piezoceramic element, Smart Mat Struct **8**(1) 116-124 (Feb 1999), 8A845
Aeroelastic tailoring using piezoelectric actuation and hybrid optimization, Smart Mat Struct **8**(1) 83-91 (Feb 1999), 8A846
Analytical dynamic performance modeling for individual C-block actuators, J Vib Acoust **121**(2) 221-230 (Apr 1999), 8A847
Dynamics of delaminated smart composites cross-ply beams, Smart Mat Struct **8**(1) 92-99 (Feb 1999), 8A848
Feedback control using shape memory alloy actuators, J Intelligent Mat Syst Struct **9**(4) 242-250 (Apr 1998), 8A849
Genetic algorithm optimization for the active control of a beam by means of PZT actuators, J Intelligent Mat Syst Struct **9**(4) 291-300 (Apr 1998), 8A850
Modeling and validation of induced strain actuation of composite coupled plates, AIAA J **37**(3) 372-377 (Mar 1999), 8A851
New shear actuated smart structure beam FE, AIAA J **37**(3) 378-383 (Mar 1999), 8A852
Smart radar absorber, Smart Mat Struct **8**(1) 64-72 (Feb 1999), 8A853
Computational Methods for Smart Structures and Materials (Comput Mech, UK, 1998) 9N26
Active vibration control of a distributed-parameter structure: Proposition of cluster control, JSME Int J Ser C **42**(1) 10-17 (Mar 1999), 9A117
Destabilizating effects of rate feedback on strain actuated beams, J Sound Vib **221**(2) 289-307 (Mar 1999), 9A120
Damped vibration of composite plates with passive piezoelectric-resistor elements, J Sound Vib **221**(5) 867-885 (Apr 1999), 9A152
Modal characteristics of a flexible smart plate filled with electrorheological fluids, J Aircraft **36**(2) 458-464 (Mar-Apr 1999), 9A158
Modal characteristics of a flexible smart plate filled with electrorheological fluids, J Aircraft **36**(2) 458-464 (Mar-Apr 1999), 9T159
Active vibration isolation control for a multi-dof structure with uncertain base dynamics, JSME Int J Ser C **41**(1) 37-45 (Mar 1998), 9A204
Active dynamic vibration absorber with automatic frequency-tracking performance, JSME Int J Ser C **41**(3) 378-383 (Sep 1998), 9A205
Active noise control with the active muffler in automotive exhaust systems, JSME Int J Ser C **41**(2) 178-183 (Jun 1998), 9A350
Discrete adaptive state feedback control based on a strict positive realness and its application to the liquid container transfer system, JSME Int J Ser C **41**(3) 371-377 (Sep 1998), 9A458
Active modal control and its robustness using point sensors and point actuators, JSME Int J Ser C **42**(1) 54-61 (Mar 1999), 9A974
Evaluation of crack closure in intelligent structure member with embedded SMA, JSME Int J Ser C **41**(3) 470-475 (Sep 1998), 9A975
McNu '97, the joint American Society for Mechanical Engineers, American Society of Civil Engineers, and Society of Engineering Sciences summer meeting, July 29 - Jul 2, 1997, J Intelligent Mat Syst Struct **9**(5) 324-400 (May 1998), 9A976
Mixed H_2-H_∞ optimal control of structural vibration (Chinese), J Vib Eng **12**(1) 103-108 (Mar 1999), 9A977
On-line detection of sensor fault in active structural vibration control system (Chinese), J Vib Eng **12**(1) 9-14 (Mar 1999), 9A978
Optimum design of actively controlled structures using genetic algorithms, Adv in Struct Eng **2**(2) 109-118 (Feb 1999), 9A979
Semiactive suspension control by H^∞ approach (Chinese), J Vib Eng **12**(1) 33-39 (Mar 1999), 9T980
Study of active control for vibration systems with unmeasurable disturbances, J Vib Eng **12**(1) 97-102 (Mar 1999), 9T981
Motion planning of kinematically redundant adaptive truss: Use of redundancy for vibration reduction, JSME Int J Ser C **41**(4) 852-859 (Dec 1998), 9A1008
Constitutive equations for polycrystalline thermoelastic shape memory alloys - Part I: Intragranular interactions and behavior of the grain, Int J Solids Struct **36**(28) 4289-4315 (Oct 1999), 10A9

Optimal placement of piezoelectric sensors and actuators for vibration control of a composite plate using genetic algorithms, Smart Mat Struct **8**(2) 257-267 (Apr 1999), 10A151
Vibration control of rotationally periodic structures using passive piezoelectric shunt networks and active compensation, J Vib Acoust **121**(3) 379-390 (Jul 1999), 10A152
Modeling and dynamic behavior of rotating blades carrying a tip mass and incorporating adaptive capabilities, Acta Mech **134**(3-4) 169-197 (1999), 10A198
Wheelbase preview optimal control for active vehicle suspensions, Chinese J Mech Eng **11**(2) 122-129 (Jun 1998), 10A237
Active control of sound radiation from cylinders with piezoelectric actuators and structural acoustic sensing, J Sound Vib **222**(3) 363-388 (May 1999), 10A347
Design and development of electronically tunable microstrip antennas, Smart Mat Struct **8**(2) 238-242 (Apr 1999), 10A449
Static adjustment of beam deflections by means of induced strain actuators, Smart Mat Struct **8**(2) 278-283 (Apr 1999), 10A453
McNU '97, joint American Society for Mechanical Engineers, American Society of Civil Engineers and Society of Engineering Sciences summer meeting held at Northwestern University, June 29-July 2, 1997, J Intelligent Mat Syst Struct **9**(6) 404-486 (Jun 1998), 10A744
Active control of composite plates with integrated piezoelectric sensors and actuators under various dynamic loading conditions, Smart Mat Struct **8**(2) 223-237 (Apr 1999), 10A979
Active vibration control system of smart structures based on FOS and ER actuator, Smart Mat Struct **8**(2) 252-256 (Apr 1999), 10A980
Application of piezoelectric actuators to active control of composite spherical caps, Smart Mat Struct **8**(2) 218-222 (Apr 1999), 10A981
Experimental verification of relaxation of stress concentrations in an adaptive plate with a circular hole using piezoelectric actuators, JSME Int J Ser A **41**(1) 142-148 (Jan 1998), 10A982
Optimization of enhanced active constrained layer treatment on helicopter flexbeams for aeromechanical stability augmentation, Smart Mat Struct **8**(2) 182-196 (Apr 1999), 10A983
Static deformation control of a laminated composite plate with piezoelectric actuators, JSME Int J Ser A **41**(2) 267-273 (Apr 1998), 10A984
Solution for pressure distribution in squeeze film damper with electrohydraulic active control, Chinese J Mech Eng **12**(1) 27-31 (Mar 1999), 10A1285
Spacecraft vibration reduction using pulse-width pulse-frequency modulated input shaper, J Guidance Control Dyn **22**(3) 433-440 (May-Jun 1999), 11A219
Selective modal transducers for piezolaminated anisotropic shells, J Guidance Control Dyn **22**(3) 455-466 (May-Jun 1999), 11A398
Behavior of an activator containing a shape memory alloy rod and an elastic displacement element, Composite Mech Des **3**(2) 71-81 (1997), 11A877
Static shape control of smart structures using compliant mechanisms, AIAA J **37**(5) 572-578 (May 1999), 11A878
Single-mode control of a cantilever beam under principal parametric excitation, J Sound Vib **224**(1) 33-47 (Jul 1999), 12A130
Control-structure interaction in disk drives using model superposition and FE analysis, J Info Storage Processing Syst **1**(1) 87-94 (Jan 1999), 12A447
Optimal geometries of shape controlled structures, Mech Struct Machines **27**(2) 143-162 (1999), 12A892
Active structural control based on genetic algorithms (Chinese), J Vib Eng **12**(2) 182-187 (Jun 1999), 12T899
Application of reinforced concrete frame with energy-dissipation braces (Chinese), J Vib Eng **12**(2) 267-272 (Jun 1999), 12T900
Application of seismic isolation technology for bridges in China (Chinese), J Vib Eng **12**(2) 173-181 (Jun 1999), 12T901
Application of smart-structure technology to rotor blade tip vibration control, J Vib and Control **5**(4) 639-658 (Jul 1999), 12A902
Control and FE modeling, Smart Mat Struct **8**(3) 285-432 (Jun 1999), 12T903
Experiment on damper control for torsion-coupled seismic responses of multistory building structures (Chinese), J Vib Eng **12**(2) 262-266 (Jun 1999), 12T904
Experimental study on active structural control with AMD (Chinese), J Vib Eng **12**(2) 223-228 (Jun 1999), 12T905
Experimental study on properties of viscoelastic dampers and seismic vibration-suppression effects of viscoelastical damped structures (Chinese), J Vib Eng **12**(2) 237-243 (Jun 1999), 12T906
Experimental study on the base-isolation building with short column bearing of steel tube concrete (Chinese), J Vib Eng **12**(2) 292-296 (Jun 1999), 12T907
Hybrid control research on earthquake responses of high-rise building with spacious first story (Chinese), J Vib Eng **12**(2) 256-261 (Jun 1999), 12T908
Non-synchronous vibration between a controlled structure and its AVS devices (Chinese), J Vib Eng **12**(2) 250-255 (Jun 1999), 12T909
Practical calculating method of equivalent seismic action of base isolation building using rubber bearings (Chinese), J Vib Eng **12**(2) 229-236 (Jun 1999), 12T910
Research on ER intelligent structure system suppressing earthquake responses (Chinese), J Vib Eng **12**(2) 193-201 (Jun 1999), 12T911
Research on structural seismic control and energy dissipation with experiments and application (Chinese), J Vib Eng **12**(2) 210-217 (Jun 1999), 12T912
Self-excited vibration of controlled elastic structures (Chinese), J Vib Eng **12**(2) 188-192 (Jun 1999), 12T913
Semiactive structural control with variable stiffness (Chinese), J Vib Eng **12**(2) 166-172 (Jun 1999), 12T914
Several problems for application of structural passive control in China (Chinese), J Vib Eng **12**(2) 273-279 (Jun 1999), 12T915
Special issue: Intelligent material systems and structures, J Intelligent Mat Syst Struct **9**(7) 489-586 (Jul 1998), 12T916
Study on the active control of flutter of long-span cable-stayed bridge (Chinese), J Vib Eng **12**(2) 286-291 (Jun 1999), 12T917
Wind-induced vibration control of tall buildings using ATMD with complete feedback (Chinese), J Vib Eng **12**(2) 218-222 (Jun 1999), 12T918
μ synthesis for active mass damper control system of structures (Chinese), J Vib Eng **12**(2) 280-285 (Jun 1999), 12T919
Seismic design approaches of passive energy dissipation systems (Chinese), J Vib Eng **12**(2) 202-209 (Jun 1999), 12T1537

282E. Probabilistic design

Multinormal probability by sequential conditioned importance sampling: Theory and application, Probab Eng Mech **13**(4) 299-308 (Oct 1998), 1A73
Shape optimization using Weibull statistics of brittle failure, Struct Optim **15**(3-4) 208-214 (Jun 1998), 1A965
Validation of PSAs for use in risk-monitoring applications, J Pressure Vessel Tech **120**(4) 379-383 (Nov 1998), 2A947
Practical procedures for reliability estimation of spacecraft structures and their components, AIAA J **36**(8) 1509-1515 (Aug 1998), 2A950
Probabilistic structural analysis: An introduction, Exp Tech **22**(5) 29-32 (Sep-Oct 1998), 3T889
Probability and statistics in engineering design, Proc Inst Mech Eng J Aerospace Eng **212**(G3) 149-212 (1998), 5A64
Probabilistic examination of the ultimate strength of cold-formed steel elements, Thin-Walled Struct **31**(4) 271-288 (Aug 1998), 5A775
Improved response factor methods for seismic fragility of reactor building, Nucl Eng Des **185**(2-3) 277-291 (Oct 1998), 5A1481
Estimation of complicated distributions using B-spline functions, Struct Safety **20**(4) 341-355 (1998), 7T827
Probability of structural failure of a satellite launching motor: Case study, J Spacecraft Rockets **36**(1) 100-104 (Jan-Feb 1999), 7A828
Specialty conference on Probabilistic Mechanics and Structural Reliability: Worcester Polytechnic Institute, Worcester, MA August 7-9, 1996, Probab Eng Mech **14**(1-2) 3-211 (Jan-Apr 1999), 7A829
Stochastic fatigue crack growth in steel structures subject to random loading, Struct Safety **20**(4) 303-323 (1998), 7A830
Dynamics of delaminated composite plates with piezoelectric actuators, AIAA J **37**(2) 248-254 (Feb 1999), 8A145
Elastoplastic analysis of structures under uncertainty: Model and solution methods, Numer Functional Anal Optimization **20**(3-4) 353-365 (1999), 11A879
Nonlinear load exceedance model for cyclic load processes: Development, Struct Safety **21**(1) 65-89 (1999), 11A884
Probabilistic Methods in the Theory of Structures, Second Edition (Dover, Mineola NY, 1999) 12N20

282F. Nonlinear theory

Large deformational analyses for plate and shell structures by the tangent stiffness method (Japanese), Proc JSCE **598**(I-44) 347-358 (Jul 1998), 3A608
Experimental evaluation of stiffness and damping of slider-air bearings in hard disk drives, J Trib **121**(1) 102-107 (Jan 1999), 4A892
Shape sensitivity analysis for structural problems with nonlinear material behavior (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 403-420 (1998), 4A893
Instantaneous optimal control for seismic analysis of nonlinear structures, J Earthquake Eng **3**(1) 83-106 (Jan 1999), 7A823
Mathematical model for gas bearing with holes of tangential supply, J Trib **121**(2) 301-305 (Apr 1999), 8A854
Nonlinear analysis of underconstrained structures, Int J Solids Struct **36**(15) 2175-2187 (May 1999), 8A855
Geometrical nonlinear analysis of tensegrity systems, Eng Struct **21**(9) 864-876 (Sep 1999), 10A985
Techniques for the analysis of nonlinear systems with applications to solid and structural mechanics, Acta Polytech Scand Civil Eng Build **0**(116) 8-74 (1999), 12A920

282G. Reliability design

Multinormal probability by sequential conditioned importance sampling: Theory and application, Probab Eng Mech **13**(4) 299-308 (Oct 1998), 1A73
Application of second-order second-moment method to ship structural reliability analysis (Chinese), J Dalian Univ Tech **38**(4) 493-494 (Jul 1998), 1A975
Assessment of structural reliability using the fuzzy sets theory, Arch Civil Eng **43**(4) 327-352 (1997), 1A976
Improved importance sampling technique (Chinese), J Dalian Univ Tech **38**(4) 410-413 (Jul 1998), 1A977
Improving the Gumbel analysis by using M-th highest extremes, Wind Struct **1**(1) 25-42 (Mar 1998), 1A978
Preprocessing for ship structural reliability computation (Chinese), J Dalian Univ Tech **38**(4) 432-437 (Jul 1998), 1A979
Reliability of microwave towers against extreme winds, Struct Eng and Mech **6**(5) 555-569 (Jul 1998), 1A980
Dynamic wind effects: A comparative study of provisions in codes and standards with wind tunnel data, Wind Struct **1**(1) 77-109 (Mar 1998), 1A1010
Effect of correlation on reliability-based design of composite plate for buckling, AIAA J **36**(9) 1706-1713 (Sep 1998), 2A948
Effects of flaw sizing errors on the reliability of vessels and piping, J Pressure Vessel Tech **120**(4) 365-373 (Nov 1998), 2A949
Practical procedures for reliability estimation of spacecraft structures and their components, AIAA J **36**(8) 1509-1515 (Aug 1998), 2A950
Reliability optimization design of ICE parts based on neural networks (Chinese), J Huazhong Univ Sci Tech **26**(5) 63-65 (May 1998), 2A951
Structural reliability analysis using artificial neural nets (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 167-179 (1998), 2A952
Advanced hyperspace division method and application for plastic reliability analysis (Japanese), Proc JSCE **598**(I-44) 269-285 (Jul 1998), 3A890
Applications of asymptotic reliability functions to the reliability and risk evaluation of pipelines, Int J Pressure Vessels Piping **75**(7) 545-558 (Jun 1998), 3A891
Risk assessment of transmission line structures under severe thunderstorms, Struct Eng and Mech **6**(7) 773-784 (Oct 1998), 3A892
Risk-based approaches to aging and maintenance management, Nucl Eng Des **184**(1) 27-38 (Aug 1998), 3A893
Study of system reliability improvement for Neuro-Fuzzy Bridge Rating Expert System (Japanese), Proc JSCE **598**(I-44) 47-63 (Jul 1998), 3A894
Study on the reliability assessment methodology for pressure piping containing circumferential defects - I: Computation method of failure probability of welded joint containing circumferential defects, Int J Pressure Vessels Piping **75**(9) 679-684 (Aug 1998), 4A792
Study on the reliability assessment methodology for pressure piping containing circumferential defects - II: Reliability analysis method of a pressure piping system, Int J Pressure Vessels Piping **75**(9) 685-691 (Aug 1998), 4A793
Study on the reliability assessment methodology for pressure piping containing circumferential defects - III: The determination method of acceptable failure probability of a certain pressure piping, Int J Pressure Vessels Piping **75**(9) 693-697 (Aug 1998), 4A794
Simplified models of damage for the analysis of steel structures (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 279-292 (1998), 4A797
Fundamental studies of injecting properties for inorganic repairing materials, Proc JSCE **599**(V-40) 49-57 (Aug 1998), 4A843
Study on allowable boundary on repair, Proc JSCE **599**(V-40) 41-48 (Aug 1998), 4A845
Reliability-based structural optimization under hazard loads, Struct Optim **16**(2-3) 128-135 (Oct 1998), 4A884
Reliability analysis of cantilever retaining structure with the correlation between the considered variables (Chinese), J Huazhong Univ Sci Tech **26**(8) 44-46 (Aug 1998), 4A894
Probability and statistics in engineering design, Proc Inst Mech Eng J Aerospace Eng **212**(G3) 149-212 (1998), 5A64
Reliability of corrosion-damaged steel structures using interval probability theory, Struct Safety **20**(3) 237-255 (1998), 5A673
Approach to combination data with information in safety analysis (Chinese), J Beijing IT **18**(2) 233-238 (Apr 1998), 5A776
Finite element and reliability: A method for compound variables-application on a cracked heating system, Nucl Eng Des **185**(2-3) 185-202 (Oct 1998), 5A777
Inverse reliability method and its application, Struct Safety **20**(3) 257-270 (1998), 5A778
Precision method of reliability design for mechanical products: The complete probability method (Chinese), J Beijing IT **18**(4) 411-414 (Aug 1998), 5A779
Time-varying reliability model of steel girder bridges, Proc Inst Civil Eng Struct Build **128**(4) 359-367 (Nov 1998), 5A780
Assessment of wind load factors for hurricane-prone regions, Struct Safety **20**(3) 271-281 (1998), 5A806
Seismic reliability assessment of existing reinforced concrete buildings, J Earthquake Eng **2**(4) 569-592 (Oct 1998), 5A1487
Damage detection of suspension bridges, J Tsinghua Univ Sci Tech **38**(12) 44-47 (Dec 1998), 6A448
Solving a problem of system reliability optimization with genetic algorithms (Chinese), J Tsinghua Univ Sci Tech **38**(7) 54-57 (Jul 1998), 6A1033
Role of NDE in time-dependent reliability analysis, Struct Safety **20**(4) 325-339 (1998), 7A720
Discussion on: Structural reliability analysis using a standard deterministic FE code, Struct Safety **20**(4) 391-397 (1998), 7T831
Fatigue reliability analysis of redundant structural systems by using Monte Carlo simulation (Chinese), J Shanghai Jiaotong Univ **32**(11) 8-12 (Nov 1998), 7A832
Fatigue reliability assessment of highway bridges using new parameters (Japanese), J Soc Mat Sci Japan **47**(12) 1233-1238 (Dec 1998), 7A833
Interactive stability-oriented reliability-based design optimization, Comput Methods Appl Mech Eng **168**(1-4) 243-253 (Jan 1999), 7A834
New method on calculating sensitivity factors (Chinese), J Shanghai Jiaotong Univ **32**(11) 26-29 (Nov 1998), 7A835
Object oriented system for damage tolerance design of stiffened panels, Eng Anal Boundary Elements **23**(1) 21-34 (Jan 1999), 7A836
Probabilistic damage tolerance design for ship structural components (Chinese), J Shanghai Jiaotong Univ **32**(11) 54-57 (Nov 1998), 7A837
Probabilistic methodology to assess the reliability of deteriorating structural elements, Comput Methods Appl Mech Eng **168**(1-4) 207-220 (Jan 1999), 7A838
Probabilistic risk assessment strategies for fighting ship structures (Chinese), J Shanghai Jiaotong Univ **32**(11) 105-109 (Nov 1998), 7A839
Reliability approach to fatigue damage prediction of highway bridges with the effect of traffic-induced vibration under consideration (Japanese), J Soc Mat Sci Japan **47**(12) 1239-1244 (Dec 1998), 7A840
Review of design for safety methodology for large marine and offshore engineering systems, Proc Inst Mech Eng E **212**(E4) 251-261 (1998), 7A841
Second order reliability method for evaluating fatigue failure probability of failure path in structural systems (Chinese), J Shanghai Jiaotong Univ **32**(11) 13-16 (Nov 1998), 7A842
Strength-based reliability and fracture assessment of fuzzy mechanical and structural systems, AIAA J **37**(1) 84-92 (Jan 1999), 7A843
Structural reliability assessment based on numerical integration using directional vectors approximation method (Japanese), J Soc Mat Sci Japan **47**(12) 1204-1209 (Dec 1998), 7A844
Reliability-based on structural optimization and "strong column-weak beam" (Chinese), J Dalian Univ Tech **38**(6) 625-631 (Nov 1998), 8A837
Lifetime failure assessment of transmission pipelines (Japanese), J Soc Mat Sci Japan **48**(1) 83-88 (Jan 1999), 8A856
Testing of a low cooled ceramic nozzle vane under transient conditions, J Eng Gas Turbines Power **121**(2) 254-258 (Apr 1999), 8A857
Assessment of low probability events of dynamical systems by controlled Monte Carlo simulation, Probab Eng Mech **14**(3) 213-227 (Jul 1999), 9A982
Reliability of reinforced concrete structures under chemical-physical attack, Arab J Sci Eng **23**(2C) 41-56 (Dec 1998), 9A983
Second-level reliability analysis of a double-hull oil tanker, Marine Struct **11**(9) 373-399 (Nov 1998), 9A1015
Reliability-based design format for jacket platforms under wave loads, Marine Struct **11**(10) 413-428 (Dec 1998), 10A986
Design for success, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 371-378 (1998), 11A880

Directional importance sampling for ill-proportioned spaces, Struct Safety **21**(1) 1-22 (1999), 11A881
Idea of forecasting the impedance over construction of building disaster (Polish), Inzynieria Budownictwo **55**(4) 199-202 (1999), 11T882
Method for reliability-based sensitivity analysis of ship's hull structures using combined plate and frame structure models, J Offshore Mech Arctic Eng **121**(3) 159-165 (Aug 1999), 11A883
Nonlinear load exceedance model for cyclic load processes: Development, Struct Safety **21**(1) 65-89 (1999), 11A884
Reliability of structures containing short cracks, J Offshore Mech Arctic Eng **121**(3) 153-158 (Aug 1999), 11A885
Reliability-based design of structures, J Struct Eng (India) **25**(1) 1-90 (Apr 1998), 11T886
Reliability-based optimization of laterally loaded piles, Struct Safety **21**(1) 45-64 (1999), 11A887
Time-dependent reliability assessment for mass concrete structures, Struct Safety **21**(1) 23-43 (1999), 11A888
Approach to design for reliability, Proc Inst Mech Eng E **213**(E1) 61-67 (1999), 11A1004
Interactive methodology for reliability-based structural design and optimization, Comput Assisted Mech Eng Sci **6**(1) 39-62 (1999), 12A921
Reliability analysis for ultimate strength of ship hull girder (Chinese), J Shanghai Jiaotong Univ **33**(3) 365-367 (Mar 1999), 12A922
Topology optimization of truss structures with systematic reliability constraints under multiple loading cases, Acta Mech Solida Sinica **12**(2) 165-173 (Jun 1999), 12A923

282H. Concrete (reinforced)

Numerical simulations of impacts using a discrete element method, Mech Cohesive-Frictional Mat **3**(3) 257-276 (Jul 1998), 1A35
International Conference on thin-walled structures: Plates and shells, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **30**(1-4) 3-250 (Jan-Apr 1998), 1T682
Approximate resizing system for the preliminary design of reinforced concrete frames, Struct Optim **15**(3-4) 242-250 (Jun 1998), 1A981
Comparison of the mechanical properties of ferrocement in flexure for square and hexagonal meshes, J Ferrocement **28**(2) 111-134 (Apr 1998), 1A982
Experimental behavior of fiber concrete slabs on soil, Mech Cohesive-Frictional Mat **3**(3) 277-290 (Jul 1998), 1A983
Location of the critical diagonal crack in ferrocement beams, J Ferrocement **28**(2) 135-146 (Apr 1998), 1A984
Model for the stress-strain behavior of ferrocement confined reinforced concrete under axial compression, J Ferrocement **28**(2) 147-164 (Apr 1998), 1A985
Seismic performance behavior of beam-column connections in prestressed concrete bridges, Mat Struct **31**(210) 411-417 (Jul 1998), 1A986
Shrinkage of early age steel fiber reinforced concrete, Arch Civil Eng **43**(4) 431-439 (1997), 1A987
Strain energy of RC beams subjected to a moving load, Indian J Eng Mat Sci **5**(3) 111-116 (Jun 1998), 1A988
Structural analysis of mass concrete block, J Mech Behavior Mat **9**(1) 35-42 (1998), 1A989
Fiber reinforced concrete: Toughness under special conditions, Cement & Concrete Composites **20**(5) 339-415 (1998), 2T657
Corrosion of reinforcement steel embedded in high water-cement ratio concrete contaminated with chloride, Cement & Concrete Composites **20**(4) 263-281 (1998), 2A843
Relationship between chloride-hydroxide ratio and corrosion rate of steel in concrete, Cement & Concrete Composites **20**(4) 282-292 (1998), 2A847
Effectiveness of RC beam-column connection repair using epoxy resin injections, J Earthquake Eng **2**(2) 217-240 (Apr 1998), 2A953
Fiber finite beam element with section shear modeling for seismic analysis of RC structures, J Earthquake Eng **2**(3) 443-473 (Jul 1998), 2A954
Models for the flexural peeling of angle plates adhesively bonded to R-C beams, Adv in Struct Eng **1**(4) 287-300 (Jul 1998), 2A955
Shear assessment of concrete beam-and-slab bridges, Proc Inst Civil Eng Struct Build **128**(3) 264-273 (Aug 1998), 2A956
Space mechanical model for nonlinear seismic responses analysis of reinforced-concrete frame-wall structures (Chinese), Chinese J Comput Mech **15**(3) 281-287 (Aug 1998), 2T963
Experimental study of the influence of plate end anchorage of carbon fiber composite plates used to strengthen reinforced concrete beams, Composite Struct **42**(2) 175-188 (Jun 1998), 3A618
Nondestructive testing of reinforced and pre-stressed concrete structures, Nondestruct Test Eval **14**(6) 339-392 (Jul 1998), 3A870
Analysis of reinforced concrete structures subjected to dynamic loads with a viscoplastic Drucker-Prager model, Appl Math Model **22**(7) 495-515 (Jul 1998), 3A895
Details of reinforcement of autoclaved aerated concrete lintels for shear and anchorage, Mat Struct **31**(212) 536-542 (Oct 1998), 3A896
Ductility requirements for redistribution of moments in reinforced concrete elements and a possible size effect, Mat Struct **31**(212) 530-535 (Oct 1998), 3A897
Experimental study on the applicability of estimation method of experienced damages of R-C column members by small load increment (Japanese), J Soc Mat Sci Japan **47**(7) 691-698 (Jul 1998), 3A898
Genetic algorithms in optimal design and detailing of reinforced concrete biaxial columns supported by a declarative approach for capacity checking, Comput Struct **69**(4) 443-457 (Nov 1998), 3A899
Influence of the linearization of the yield surface on the load-bearing capacity of reinforced concrete slabs, Comput Methods Appl Mech Eng **162**(1-4) 351-358 (Aug 1998), 3A900
Sixth international symposium on ferrocement, J Ferrocement **28**(3) 221-291 (Jul 1998), 3T901
Design of Structures Considering Creep (Balkema, Rotterdam, Netherlands, 1997) 4N14
Civil infrastructural applications of composite materials, Composites Sci Tech **58**(8) 1259-1380 (Aug 1998), 4T612
Peel test for characterization of polymer composite-concrete interface, J Composite Mat **32**(21) 1894-1913 (1998), 4A622
Repair and strengthening of sewerage concrete structures using fiber sheet (Japanese), Proc JSCE **599**(V-40) 59-69 (Aug 1998), 4A844
Advances in understanding shear performance of concrete structures, Progress Struct Eng Mat **1**(4) 360-369 (Jul 1998), 4A895
Anchorage to concrete, Progress Struct Eng Mat **1**(4) 392-403 (Jul 1998), 4A896
Calculation for deformation and ultimate strength of reinforced concrete members under torsion in considering effective cover thickness (Japanese), Proc JSCE **599**(V-40) 81-90 (Aug 1998), 4A897
Cathodic protection of reinforced concrete structures in The Netherlands: Experience and developments, Heron **43**(1) 3-14 (1998), 4A898
Compressive behavior of concrete laterally-reinforced with carbon or aramid fiber (Japanese), Proc JSCE **599**(V-40) 119-130 (Aug 1998), 4A899
Earthquake performance assessment of concrete structures, Progress Struct Eng Mat **1**(4) 370-377 (Jul 1998), 4A900
Inelastic dynamic response of reinforced concrete infilled frames, Comput Struct **69**(6) 685-693 (Dec 1998), 4A901
Long-term deflection of RC beams under constant loads, Eng Struct **21**(2) 168-175 (Feb 1999), 4A902
Micromechanical fiber pullout model for steel fiber reinforced concrete, Proc JSCE **599**(V-40) 155-163 (Aug 1998), 4A903
Reversed cyclic response of monolithic and slitted reinforced concrete masonry wall-piers, Eng Struct **21**(2) 99-111 (Feb 1999), 4A904
Study on the fundamental characteristics of lattice model for reinforced concrete beam analysis, Proc JSCE **599**(V-40) 165-175 (Aug 1998), 4A905
United design theory for concrete filled steel tubular members subjected to compression-bending-torsion under the initial steel stress (Chinese), J Huazhong Univ Sci Tech **26**(8) 41-43 (Aug 1998), 4A906
Behavior of ferrocement confined reinforced concrete under axial compression, Mat Struct **31**(213) 628-633 (Nov 1998), 5A781
Behavior of reinforced concrete T-beams, J Eng Appl Sci **45**(4) 513-531 (Aug 1998), 5A782
Coupling model of reinforced concrete fracture, Mat Struct **31**(213) 602-608 (Nov 1998), 5A783
Design of non-flexural members for shear, Cement & Concrete Composites **20**(6) 465-475 (1998), 5A784
Effect of openings on the behavior and strength of R-C beams in shear, Cement & Concrete Composites **20**(6) 477-486 (1998), 5A785
Elastoplastic analysis of reinforced concrete slit shear walls, Proc Inst Civil Eng Struct Build **128**(4) 342-350 (Nov 1998), 5A786
Moment-curvature relationships to estimate deflections and second-order moments in wind-loaded RC chimneys and towers, Wind Struct **1**(3) 255-269 (Sep 1998), 5A787
Plasticity approach to shear design, Cement & Concrete Composites **20**(6) 437-453 (1998), 5A788
Plate reinforced concrete beams: Experimental work, Eng Struct **21**(3) 232-254 (Mar 1999), 5A789
Shear design of reinforced concrete beams, slabs and walls, Cement & Concrete Composites **20**(6) 455-464 (1998), 5A790
Simulation of crack spacing using a reinforced concrete model with an internal length parameter, Arch Appl Mech **68**(9) 613-625 (Nov 1998), 5A791
Structural behavior of reinforced concrete frame-wall components, Mat Struct **31**(213) 609-615 (Nov 1998), 5A792
Uncertainty analysis of strength and ductility of confined reinforced concrete members, Eng Struct **21**(3) 195-208 (Mar 1999), 5A793
Unified approach to shear analysis and design, Cement & Concrete Composites **20**(6) 419-435 (1998), 5A794
Parametric study on the structural behavior of steel plates in concrete-filled fabricated thin-walled box columns, Adv in Struct Eng **2**(1) 57-71 (Nov 1998), 6A695
Acoustic emissions characteristics of reinforced concrete beams subjcted to flexural loading and fundamental investigation of its applicability to evaluation of deterioration (Japanese), Proc JSCE **606**(V-41) 89-102 (Nov 1998), 6A1034
Experimental study of fracture of lightly reinforced concrete beams, Mat Struct **31**(214) 683-691 (Dec 1998), 6A1035
Experimental study to determine the tension softening curve of concrete (Japanese), Proc JSCE **606**(V-41) 75-88 (Nov 1998), 6A1036
Flexural behavior of concrete beams reinforced with FRP bars, Adv Composites Letters 7(5) 133-137 (1998), 6A1037
Intelligent structure of concrete reinforced by CFRP, J Soc Mat Sci Japan **47**(11) 1183-1187 (Nov 1998), 6A1038
Minimum reinforcement requirements for PRC beams (Japanese), Proc JSCE **606**(V-41) 151-164 (Nov 1998), 6A1039
Sensor and actuator for intelligent structure of concrete reinforced by CFRP, J Soc Mat Sci Japan **47**(11) 1178-1182 (Nov 1998), 6A1040
Ultimate strength analysis of reinforced concrete sections subject to axial force and biaxial bending, Comput Methods Appl Mech Eng **166**(3-4) 261-287 (Nov 1998), 6A1041
Ultimate strength of sleeve joints between concrete-filled circular steel pipes (Japanese), Proc JSCE **606**(V-41) 31-42 (Nov 1998), 6A1042
Approach for calculating the failure loads of unprotected concrete filled steel columns exposed to fire, Struct Eng and Mech 7(2) 127-145 (Feb 1999), 6A1044
Fire resistance of concrete filled steel tubular columns, Adv in Struct Eng **2**(1) 35-39 (Nov 1998), 6A1045
Ultimate Limit-State Design of Concrete Structures: A New Approach (Telford, UK, 1999) 7R15
Nonlinear FE analysis of concrete filled steel tubular compression-bending-torsion members under the initial stress (Chinese), Chinese J Comput Mech **16**(1) 52-57 (Feb 1999), 7T16
Study on the structural mechanism of Reinforced concrete (RC) composite beam considering pre-loading effect (Japanese), Proc JSCE **609**(VI41) 61-72 (Dec 1998), 7A552
Experimental results from laboratory tests on an 8 metre beam manufactured from hybrid composite formwork, Adv Composites Letters 7(6) 155-160 (1998), 7A845
Moment-capacity and rotational stiffness of endplate connections to concrete-filled tubular columns with flowdrilled connectors, J Construct Steel Res **50**(1) 35-48 (Apr 1999), 7A846
New special FEs for modeling reinforcement and steel-concrete interface, J Eng Appl Sci **45**(5) 677-691 (Oct 1998), 7A847
Optimal maintenance for RC decks of bridge network based upon life cycle cost (Japanese), J Soc Mat Sci Japan **47**(12) 1245-1250 (Dec 1998), 7A848
Properties of high-strength steel fiber-reinforced concrete beams in bending, Cement & Concrete Composites **21**(1) 73-81 (1999), 7A849
Technology to restore the inclined RC T type pier with the plastic hinge (Japanese), Proc JSCE **609**(VI41) 39-49 (Dec 1998), 7T864
Reinforced concrete scaled columns under cyclic actions, Soil Dyn Earthquake Eng **18**(2) 151-167 (Feb 1999), 7A1567
Softening effects on the seismic response of non-ductile concrete frames, J Earthquake Eng **3**(1) 59-81 (Jan 1999), 7A1568
Finite element implementation of a steel-concrete bond law for nonlinear analysis of beam-column joints subjected to earthquake type loading, Struct Eng and Mech 7(1) 35-52 (Jan 1999), 8A21
Model for cracking in fiber-reinforced concrete structures, Mat Struct **32**(216) 125-130 (Mar 1999), 8A588
Assessment of glass fiber reinforced cement by *in situ* SEM bending tests, Mat Struct **32**(216) 140-143 (Mar 1999), 8A858
Bond characteristics of corroding reinforcement in concrete beams, Mat Struct **32**(216) 89-97 (Mar 1999), 8A859
Effects of age up to 18 years under various exposure conditions on the tensile properties of a polypropylene fiber reinforced cement composites, Mat Struct **32**(216) 83-88 (Mar 1999), 8A860
Inelastic analysis of RC beam-column subassemblages under various loading histories, Struct Eng and Mech 7(1) 69-80 (Jan 1999), 8A861
Lifetime of concrete dam models under constant loads, Mat Struct **32**(216) 103-111 (Mar 1999), 8A862
Performance of concrete beams prestressed with aramid fiber-reinforced polymer tendons, Composite Struct **44**(1) 63-70 (Jan 1999), 8A863
Seismic design of open-story infilled RC buildings, J Earthquake Eng **3**(2) 173-197 (Apr 1999), 8A864
Seismic vulnerability evaluation of a 32-story reinforced concrete building, Struct Eng and Mech 7(1) 1-18 (Jan 1999), 8A865
Shear-crack width of steel fiber reinforced prestressed concrete beams (Chinese), J Dalian Univ Tech **38**(6) 705-710 (Nov 1998), 8A866
Simulation of damage in RC frames with variable axial forces, Earthquake Eng Struct Dyn **28**(3) 311-328 (Mar 1999), 8A879
Computational Fracture Mechanics in Concrete Technology (Comput Mech, UK, 1998) 9N25
Application and development of concrete-filled steel tubes in high rise buildings, Adv in Struct Eng **2**(2) 149-159 (Feb 1999), 9T984
Cracking in reinforced concrete flexural members - A reliability model, Struct Eng and Mech 7(3) 303-318 (Mar 1999), 9A985
Damage assessment of reinforced concrete framed structures by cracked beam element (Chinese), J Vib Eng **12**(1) 115-119 (Mar 1999), 9A986
Durability characteristics of concrete columns confined with advanced composite materials, Composite Struct **44**(2-3) 155-161 (Feb-Mar 1999), 9A987
Durability-based design, monitoring, and repair of reinforced concrete structures: A review, Arab J Sci Eng **23**(2C) 207-227 (Dec 1998), 9A988
Prestressed concrete box girder bridges with folded steel plate webs, Proc Inst Civil Eng Struct Build **134**(1) 77-85 (Feb 1999), 9A989
Observed FE capabilities and limitations from multi-team simulations of three concrete shell structures, Comput Struct **71**(3) 277-291 (May 1999), 10A702
Spatially averaged tensile mechanics for cracked concrete and reinforcement under highly inelastic range, Proc JSCE **613**(V-42) 277-293 (Feb 1999), 10A887
Fundamental study on crack closing and surface improvement of reinforced concrete by electrodeposition method (Japanese), Proc JSCE **613**(V-42) 201-210 (Feb 1999), 10A936
Brief introduction to development of high performance concrete and its design for earthquake action (Chinese), J Dalian Univ Tech **39**(2) 331-335 (Mar 1999), 10A987
Deterioration process and estimation of durability of reinforced concrete beams in long-term exposure to marine environment (Japanese), Proc JSCE **613**(V-42) 71-83 (Feb 1999), 10A988
Experimental study on crack behavior of RC tensile members strengthened with carbon fiber sheets (Japanese), Proc JSCE **613**(V-42) 249-262 (Feb 1999), 10A989
RC sections subjected to combined torsional bending and axial force, J Eng Appl Sci **46**(1) 17-32 (Feb 1999), 10A990
Steel-concrete interface: Revisiting constitutive and numerical modeling, Comput Struct **71**(5) 489-503 (Jun 1999), 10A991
Study on the mechanism of shear strength decay of RC members under load reversals (Japanese), Proc JSCE **613**(V-42) 85-102 (Feb 1999), 10A992
Performance-based fire resistance design of concrete-filled steel columns, J Construct Steel Res **51**(1) 21-36 (Jul 1999), 10A1001
Modeling of elastic line inhomogeneities inside an elastic continuum using BEM, J Struct Eng (India) **25**(3) 173-176 (Oct 1998), 11A76
Time-dependent reliability assessment for mass concrete structures, Struct Safety **21**(1) 23-43 (1999), 11A888
Approximate analyses of reinforced concrete slabs, Struct Eng and Mech **8**(1) 1-18 (Jul 1999), 11A889
Bearing capacity of circular composite columns under axial load (Polish), Inzynieria Budownictwo **55**(1) 18-22 (1999), 11A890
Behavior of concrete columns with interlocking spirals, Eng Struct **21**(10) 945-953 (Oct 1999), 11A891
Behavior of reinforced concrete box girders subjected to combined bending and torsion, J Struct Eng (India) **25**(3) 157-166 (Oct 1998), 11A892
Bond slippage in reinforced concrete flexural members: Theoretical investigation, J Struct Eng (India) **25**(3) 177-183 (Oct 1998), 11A893
Cracking of prestressed concrete structures: Modelization, validation, and interpretation (French), Mat Struct **32**(219) 360-369 (Jun 1999), 11A894
Effect of excitation type on dynamic system parameters of a reinforced concrete bridge, Struct Eng and Mech 7(4) 387-400 (Apr 1999), 11A895
Experimental and theoretical investigation on the shear of steel fiber reinforced concrete beams, Eng Struct **21**(10) 937-944 (Oct 1999), 11A896
Experimental study of static and cyclic behavior of steel fiber reinforced high performance concrete (French), Mat Struct **32**(219) 348-353 (Jun 1999), 11A897
Factors governing redistribution of moment in continuous prestressed concrete beams, Struct Eng and Mech **8**(2) 119-136 (Aug 1999), 11A898
Flexural behavior of steel fiber reinforced concrete beams under static load, J Struct Eng (India) **25**(3) 167-172 (Oct 1998), 11A899

Identification of failure in reinforced concrete by means of genetic algorithm, J Tech Phys **39**(3-4) 421-428 (1998), 11A900
Modeling of reinforced concrete structural walls, Eng Struct **21**(10) 912-923 (Oct 1999), 11A901
Modeling of shear deformation and bond slip in reinforced concrete joints, Struct Eng and Mech **7**(4) 413-432 (Apr 1999), 11A902
Moment capacity of reinforced concrete beams with short steel fibers, J Struct Eng (India) **25**(4) 237-241 (Jan 1999), 11A903
Nonlinear seismic analysis of a reinforced concrete shear wall, J Struct Eng (India) **25**(4) 221-225 (Jan 1999), 11A904
Numerical study on RC flat plates subjected to combined axial and transverse load, Struct Eng and Mech **8**(2) 137-150 (Aug 1999), 11A905
Prestressed fiber reinforced concrete beams with reduced ratios of shear reinforcement, Cement & Concrete Composites **21**(3) 213-221 (1999), 11A906
Recent developments in fatigue and fracture mechanics-based analysis and design of structures, J Struct Eng (India) **26**(1) 1-86 (Apr 1999), 11T907
Study for leak proof pressure piping with artificial cracks, J Struct Eng (India) **25**(3) 207-213 (Oct 1998), 11T908
Tensile creep behavior of high strength concretes at early ages, Mat Struct **32**(219) 383-387 (Jun 1999), 11A909
Tensional strength of fiber reinforced concretes (Polish), Inzynieria Budownictwo **55**(2) 108-110 (1999), 11T910
Accelerated aging characteristics of glass-fiber reinforced cement made with new cementitious matrices, Composites Part A Appl Sci and Manuf **30A**(9) 1073-1080 (1999), 12A611
Application of reinforced concrete frame with energy-dissipation braces (Chinese), J Vib Eng **12**(2) 267-272 (Jun 1999), 12T900
Design of concrete structures for durability, Heron **43**(4) 227-244 (1998), 12A924
State of strain analysis of concrete cross-sections exposed to bending (Polish), Inzynieria Budownictwo **55**(6) 340-342 (1999), 12A925

282I. Concrete (prestressed)

Modelling and Analysis of Reinforced Concrete Structures for Dynamic Loading (Springer-Verlag, Wien, 1998) 2N14
Discrete elements in structural concrete design, Heron **42**(3) 159-168 (1997), 2A957
Study of hydrated Portland cement composition in regard to leaching resistance, Heron **42**(4) 215-229 (1997), 2A958
Durability of marine concrete under thermal cycling loads, Heron **43**(1) 15-28 (1998), 4A907
Numerical modeling of self-desiccation of hardening cement paste, Heron **43**(2) 99-118 (1998), 4A908
Comparison of the nonhomogenized dynamic method of cells and a hydrodynamic calculation for wave propagation, Wave Motion **29**(1) 47-61 (Jan 1998), 5A199
Fatigue durability of longitudinally prestressed concrete slabs under running wheel (Japanese), Proc JSCE **605**(I-45) 79-90 (Oct 1998), 6A854
Shake table tests on prestressed concrete frames, Mat Struct **31**(214) 676-682 (Dec 1998), 6A1043
Mesoscopic study of concrete - I: Generation of random aggregate structure and FE mesh, Comput Struct **70**(5) 533-544 (Mar 1999), 7A850
Mesoscopic study of concrete - II: Nonlinear FE analysis, Comput Struct **70**(5) 545-556 (Mar 1999), 7A851
Maximum modulus eccentricities surface for masonry vaults and limit analysis, Math Mech Solids **4**(1) 71-87 (Mar 1999), 7A860
Shear-crack width of steel fiber reinforced prestressed concrete beams (Chinese), J Dalian Univ Tech **38**(6) 705-710 (Nov 1998), 8A866
Studies on tensile stress and crack growth of steam cured prestressed concrete members (Japanese), J Soc Mat Sci Japan **48**(1) 22-29 (Jan 1999), 8A867
Theory and application of the hard inclusion techniques for the measurements of *in situ* stresses in prestressed concrete box-girder bridges, Proc Inst Civil Eng Struct Build **134**(1) 57-65 (Feb 1999), 9A990
Flexural fatigue behavior of prestressed concrete beams with non-metallic fiber tendon under atmosphere and water (Japanese), Proc JSCE **613**(V-42) 59-69 (Feb 1999), 10A993
Influence of desalination of mechanical behavior of prestressed concrete members (Japanese), Proc JSCE **613**(V-42) 189-199 (Feb 1999), 10A994
Study on long-term deformation and stress of prestressed reinforced concrete members (Japanese), Proc JSCE **613**(V-42) 43-57 (Feb 1999), 10A995
Study on mechanical property of prestressed concrete encased by double steel tubes subjected to axial forces (Japanese), Proc JSCE **613**(V-42) 1-18 (Feb 1999), 10A996
Analysis method for prestressed precast culverts of a flexible system following ground subsidence in the longitudinal direction (Japanese), Proc JSCE **617**(III-46) 31-47 (Mar 1999), 11A911
Fatigue limit state evaluation of concrete structures in the Polish design codes (Polish), Inzynieria Budownictwo **55**(4) 220-224 (1999), 11T912
Investigation of RC beams under simultaneous twist and shear (Polish), Inzynieria Budownictwo **55**(4) 211-213 (1999), 11T913
Optimization design of unbonded prestressed dual concrete slabs (Chinese), Chinese J Comput Mech **16**(2) 181-186 (May 1999), 11T914

282J. Sandwich structure

Recent Advances in Mechanics of Aerospace Structures and Materials - 1998 (ASME, New York, 1998) 6N26

282K. Foam and honeycomb structures

Elastoplastic micromechanical modeling of 2D irregular convex and nonconvex (re-entrant) hexagonal foams, J Appl Mech **65**(3) 748-757 (Sep 1998), 2A959
Study of the remodeling of waste polystyrene foam (Chinese), J Huazhong Univ Sci Tech **26**(8) 47-49 (Aug 1998), 4A1539
Dynamic buckling strength of honeycomb core of aluminum alloy, J Soc Mat Sci Japan **47**(11) 1119-1124 (Nov 1998), 6A703
Porous, Cellular, and Microcellular Materials - 1998 (ASME, New York, 1998) 7N21
Foaming behavior of polyurethane to be applied to inflatable space structures under low pressure environment (Japanese), J Soc Mat Sci Japan **48**(1) 49-55 (Jan 1999), 8A868
Dynamic and static compression tests for paper honeycomb cores and absorbed energy, JSME Int J Ser A **41**(3) 338-344 (Jul 1998), 10A997
Micromechanical modeling of intracellular pressure-induced viscoelastic shrinkage of foams: Application to expanded polystyrene, Eur J Mech A **18**(2) 201-218 (Mar-Apr 1999), 10A998
Porous and Cellular Materials for Structural Applications (MRS, Pittsburgh PA, 1999) 11N21

282L. Dynamic and random loading

Formulation and numerics for the statics and dynamics of shells at finite deformations (German), Bauingenieur **73**(6) 283-291 (Jun 1998), 1A674
Seismic performance behavior of beam-column connections in prestressed concrete bridges, Mat Struct **31**(210) 411-417 (Jul 1998), 1A986
BP networks response evaluation method for nonstationary stochastic excited mechanical system (Chinese), J Vib Eng **11**(2) 194-199 (Jun 1998), 1A990
Direct implementation of stochastic linearization for SDOF systems with general hysteresis, Struct Eng and Mech **6**(5) 473-484 (Jul 1998), 1A991
Dynamic analysis of floating bridges, Marine Struct **11**(1-2) 29-46 (Jan-Feb 1998), 1A992
Dynamic analysis of the pedestrian bridge over the Allmandring in Stuttgart (German), Bauingenieur **73**(6) 274-282 (Jun 1998), 1A993
Field measurements of wind-induced transmission tower foundation loads, Wind Struct **1**(2) 183-199 (Jun 1998), 1A994
Transient response of stiffened composite submersible hull subjected to underwater explosive shock, Composite Struct **41**(1) 27-37 (Jan 1998), 1A995
Fiber finite beam element with section shear modeling for seismic analysis of RC structures, J Earthquake Eng **2**(3) 443-473 (Jul 1998), 2A954
Investigation of the failure of a space truss subjected to earthquake, Adv in Struct Eng **1**(4) 307-311 (Jul 1998), 2A960
Seismic response of a secondary system mounted on a torsionally coupled nonlinear primary system, J Earthquake Eng **2**(3) 339-356 (Jul 1998), 2A961
Simplified method for elastic seismic analysis of hill buildings, J Earthquake Eng **2**(2) 241-266 (Apr 1998), 2A962
Space mechanical model for nonlinear seismic responses analysis of reinforced-concrete frame-wall structures (Chinese), Chinese J Comput Mech **15**(3) 281-287 (Aug 1998), 2T963
New tools for structural testing: Piezoelectric impact hammers and acceleration rate sensors, J Guidance Control Dyn **21**(5) 692-697 (Sep-Oct 1998), 3A853
Dynamic pedestrian loading (German), Bauingenieur **73**(7-8) 342-346 (Jul-Aug 1998), 3A902
Strength and ductility of cylindrical steel piers subjected to cyclic lateral load (Japanese), Proc JSCE **598**(I-44) 125-135 (Jul 1998), 3A922
Finite element analysis for wave response of large floating structures (Japanese), Proc JSCE **598**(I-44) 161-170 (Jul 1998), 3A923
Random vibration of multispan Timoshenko frames due to a moving load, Struct Eng and Mech **6**(6) 673-691 (Sep 1998), 4A146
Earthquake performance assessment of concrete structures, Progress Struct Eng Mat **1**(4) 370-377 (Jul 1998), 4A900
Seismic behavior of cable-stayed bridges under multi-component random ground motion, Eng Struct **21**(1) 62-74 (Jan 1999), 4A913
Transient analysis of thin-walled structures using macro spline FEs, Eng Struct **21**(3) 255-266 (Mar 1999), 5A29
Nonlinear seismic response of concrete gravity dams with dam-reservoir interaction, Eng Struct **21**(4) 306-315 (Apr 1999), 5A38
Iterative approach to dynamic elastic-plastic analysis, J Appl Mech **65**(4) 811-819 (Dec 1998), 5A173
Impact performance of pultruded beams for highway safety applications, Composite Struct **42**(3) 231-237 (Jul 1998), 5A526
Performance of timber scaffold boards under human jump loads, Proc Inst Civil Eng Struct Build **128**(4) 332-341 (Nov 1998), 5A795
Response spectrum analysis of simple structures subjected to random excitation (Chinese), J Beijing IT **18**(1) 105-109 (Feb 1998), 5A796
Structural behavior of homogeneous and hybrid stub columns under dynamic loading conditions, Thin-Walled Struct **31**(4) 289-303 (Aug 1998), 5A797
Modal parameter estimation and model order selection of a randomly vibrating system, Mech Syst Signal Processing **12**(6) 825-838 (Nov 1998), 6A333
Anomalous behavior revisited: Dynamic response of elastic-plastic structures, Acta Mech Solida Sinica **11**(4) 283-294 (1998), 6A569
Transient responses of geometrically nonlinear laminated composite shell structures, Finite Elements Anal Des **31**(2) 117-134 (Dec 1998), 6A606
Selection of optimal parameters of multilayer plates at nonstationary loadings, Meccanica **33**(6) 553-564 (Dec 1998), 6A1022
Shake table tests on prestressed concrete frames, Mat Struct **31**(214) 676-682 (Dec 1998), 6A1043
Selected papers presented at the Seventh International Conference on Computing in Civil and Building Engineering, Struct Eng and Mech **6**(8) 841-969 (Dec 1998), 6T1048
Response of a buried structure to surface repetitive loading, Eng Struct **21**(5) 416-424 (May 1999), 6A1054
Seismic analysis and response of multistory semirigid frames, Eng Struct **21**(5) 425-441 (May 1999), 6A1056
Effect of impact damage on the capacity of tubular steel members of offshore structures, Marine Struct **11**(4-5) 141-157 (May-Jun 1998), 6A1060
Parametric study of the nonlinear dynamic behavior of an offshore jack-up unit, Eng Struct **21**(5) 383-394 (May 1999), 6A1061
Experimental study on seismic response of sliding isolated building, Adv in Struct Eng **2**(1) 17-24 (Nov 1998), 6A1493
Inverse method for the identification of a distributed random excitation acting on a vibrating structure - Part I: Theory, Mech Syst Signal Processing **13**(1) 53-65 (Jan 1999), 7T331
Inverse method for the identification of a distributed random excitation acting on a vibrating structure - Part II: Flow-induced vibration application, Mech Syst Signal Processing **13**(1) 67-81 (Jan 1999), 7T332
Dynamic response under human movements, Mat Struct **32**(215) 31-37 (Jan-Feb 1999), 7A852
Shakedown limits for reinforced beam structures under fluctuating loads, Int J Solids Struct **36**(9) 1297-1309 (Mar 1999), 7A853
Probabilistic load combinations and their applications in ship engineering (Chinese), J Shanghai Jiaotong Univ **32**(11) 121-125 (Nov 1998), 7A878
Adaptive FE analysis of structures under transient dynamic loading using modal superposition, Finite Elements Anal Des **31**(4) 255-272 (Feb 1999), 8A20
Finite element implementation of a steel-concrete bond law for nonlinear analysis of beam-column joints subjected to earthquake type loading, Struct Eng and Mech **7**(1) 35-52 (Jan 1999), 8A21
Seismic design of open-story infilled RC buildings, J Earthquake Eng **3**(2) 173-197 (Apr 1999), 8A864
Seismic vulnerability evaluation of a 32-story reinforced concrete building, Struct Eng and Mech **7**(1) 1-18 (Jan 1999), 8A865
Dynamic analysis of trusses including the effect of local modes, Struct Eng and Mech **7**(1) 81-94 (Jan 1999), 8A877
New breakaway mailbox designed using nonlinear FE analysis, Finite Elements Anal Des **32**(1) 37-49 (Mar 1999), 9A29
Dynamic analysis for laminated composite beams, Composite Struct **44**(2-3) 81-87 (Feb-Mar 1999), 9A685
Precise integration of the variance matrix of structural non-stationary random responses (Chinese), J Vib Eng **12**(1) 1-8 (Mar 1999), 9A991
Theory of stochastically excited and dissipated Hamiltonian systems: Some new developments in nonlinear stochastic structural dynamics, Adv in Struct Eng **2**(3) 173-189 (May 1999), 9A992
Transient response of a right-angled bent cantilever subjected to an out-of-plane tip load, Struct Eng and Mech **7**(3) 331-344 (Mar 1999), 9A993
Seismic analysis of suspension bridge superstructures, Adv in Struct Eng **2**(2) 75-85 (Feb 1999), 9A1003
Impact mechanics in ship collisions, Marine Struct **11**(10) 429-449 (Dec 1998), 10A950
Influence of stiffness and strength eccentricities on the inelastic earthquake response of asymmetric structures, Eng Struct **21**(9) 856-863 (Sep 1999), 10A999
Nonlinear seismic response of steel structures with semi-rigid and composite connections, J Construct Steel Res **51**(1) 37-59 (Jul 1999), 10A1555
Optimal topology design of structures under dynamic loads, Struct Optim **17**(2-3) 208-218 (Apr 1999), 11A868
Effect of excitation type on dynamic system parameters of a reinforced concrete bridge, Struct Eng and Mech **7**(4) 387-400 (Apr 1999), 11A895
Nonlinear seismic analysis of a reinforced concrete shear wall, J Struct Eng (India) **25**(4) 221-225 (Jan 1999), 11A904
Response of 3D framed structures under floor excitations, J Struct Eng (India) **25**(4) 251-254 (Jan 1999), 11T915
Seismic analysis of infilled frames, J Struct Eng (India) **25**(2) 95-102 (Jul 1998), 11A1570
Analysis of dynamic failure of plastic spherical shells under local impact, J Beijing IT **8**(1) 36-41 (Mar 1999), 12A196

282M. Thermal loading

Thermally induced attitude dynamics of a spacecraft with a flexible appendage, J Guidance Control Dyn **21**(4) 581-587 (Jul-Aug 1998), 1A416
Advanced analysis for the assessment of steel frames in fire, J Construct Steel Res **47**(1-2) 19-45 (Jul 1998), 1A996
Apprisement of thermal effects on the pedestrian-bridge built with different types of suspenders (Polish), Inzynieria Budownictwo **54**(5) 261-264 (1998), 2A964
Influence of cement hydration heat on cracking possibility of massive reinforced concrete structures (Polish), Inzynieria Budownictwo **54**(5) 243-245 (1998), 2A965
Finite element model for the fire-performance of GRP panels including variable thermal properties, Finite Elements Anal Des **30**(4) 313-324 (Oct 1998), 4A33
Fire resistance of composite floor slabs using a model fire test facility, Eng Struct **21**(2) 176-182 (Feb 1999), 4A613
Thermal postbuckling of imperfect Reissner-Mindlin plates with two free side edges and resting on elastic foundations, Struct Eng and Mech **6**(6) 643-658 (Sep 1998), 4A669
Studies of the behavior of steel subframes with semi-rigid connections in fire, J Construct Steel Res **49**(1) 83-98 (Jan 1999), 4A909
Approach for calculating the failure loads of unprotected concrete filled steel columns exposed to fire, Struct Eng and Mech **7**(2) 127-145 (Feb 1999), 6A1044
Fire resistance of concrete filled steel tubular columns, Adv in Struct Eng **2**(1) 35-39 (Nov 1998), 6A1045
Effects of structural continuity on the fire resistance of concrete filled columns in non-sway frames, J Construct Steel Res **50**(2) 177-197 (May 1999), 8A869
Experimental studies of the behavior of unprotected steel frames in fire, J Construct Steel Res **50**(2) 137-150 (May 1999), 8A870
Shear stress contributions and failure mechanisms of high strength reinforced concrete beams, Mat Struct **32**(216) 112-116 (Mar 1999), 8A871
Heat conduction in ring-stiffened shells of revolution: A structural mechanics analogy, Adv in Struct Eng **2**(2) 87-102 (Feb 1999), 9A700
Thermal buckling analysis of thick anisotropic composite plates by finite strip method, Struct Eng and Mech **7**(5) 473-484 (May 1999), 9A719
Behavior of asymmetric slim floor steel beams in fire, J Construct Steel Res **50**(3) 235-257 (Jun 1999), 9A994
Large thermal deflection analysis of composite plates using finite strip method, Adv in Struct Eng **2**(2) 137-146 (Feb 1999), 9A995
Fire resistance of unprotected steel beams with moment connections, J Construct Steel Res **51**(1) 61-77 (Jul 1999), 10A1000
Performance-based fire resistance design of concrete-filled steel columns, J Construct Steel Res **51**(1) 21-36 (Jul 1999), 10A1001
Thermo-elastic response of monolithic and composite plates to a thermal shock, Mech Mat **31**(5) 351-365 (May 1999), 10A1002
Static analysis of steel structure tensioned members exposed to fire (Polish), Inzynieria Budownictwo **55**(4) 190-192 (1999), 11T916
Stress model for multiobjective design optimization of a power electronic module, Mech Struct Machines **27**(2) 163-183 (1999), 12A896

282P. Design codes

Development of a robust element for second-order "nonlinear integrated design and analysis", J Construct Steel Res **47**(1-2) 169-190 (Jul 1998), 1A18
Behavior of thin-walled steel box sections with or without internal restraint, J Construct Steel Res **47**(1-2) 73-91 (Jul 1998), 1A709
Effective length factor of columns in flexibly jointed and braced frames, J Construct Steel Res **47**(1-2) 93-118 (Jul 1998), 1A712
Advanced analysis for the assessment of steel frames in fire, J Construct Steel Res **47**(1-2) 19-45 (Jul 1998), 1A996
Design guidelines of truss structures for damping control (Chinese), J Vib Eng **11**(2) 144-151 (Jun 1998), 1A997
International Conference on thin-walled structures: Cold-formed steel and aluminium structures, held December 2-4, 1996 in Glasgow, Thin-Walled Struct **29**(1-4) 3-287 (Sep-Dec 1997), 1T998
Static strength of multiplanar tubular TX-joints under axial loading excluding the effects of overall chord bending moments, J Construct Steel Res **47**(1-2) 141-168 (Jul 1998), 1A999
Estimation of required separations between adjacent structures under spatial ground motions, J Earthquake Eng **2**(2) 197-215 (Apr 1998), 2A251
Design algorithm for RC bending sections with assumption of parabolic-rectangular σ-ε diagram (Polish), Inzynieria Budownictwo **54**(3) 126-130 (1998), 2A966
Design of sway frames with semi-rigid connections: State-of-the-art and trends (Polish), Inzynieria Budownictwo **54**(3) 140-145 (1998), 2A967
Development of proposed European design rules for buckling of axially compressed cylinders, Adv in Struct Eng **1**(4) 273-286 (Jul 1998), 2A968
Evaluation of approaches for determining design allowables for bolted joints in laminated composites, Composite Struct **41**(2) 167-176 (Feb 1998), 2A969
Existing rules and new tests for stud shear connectors in troughs of profiled sheeting, Proc Inst Civil Eng Struct Build **128**(3) 244-251 (Aug 1998), 2A970
Models and design rules for stud shear connectors in troughs of profiled sheeting, Proc Inst Civil Eng Struct Build **128**(3) 252-263 (Aug 1998), 2A971
Practical method of dimensions of eccentrically compressed RC cross section according to EC2 (Polish), Inzynieria Budownictwo **54**(6) 327-329 (1998), 2A972
Shear strength of welded aluminium alloy plate girders, Proc Inst Civil Eng Struct Build **128**(3) 308-314 (Aug 1998), 2A973
Nonlinear behavior and design of steel frames and members, J Construct Steel Res **48**(2-3) 63-209 (Nov-Dec 1998), 3A639
Advances in engineering software: Computing systems in engineering, Adv Eng Software **29**(10) 755-849 (Dec 1998), 3A903
Dimensioning of steel trapezoidal sheeting according to DIN 18 807 under consideration of the Adjusting Guide Constructional Steel (German), Bauingenieur **73**(7-8) 347-356 (Jul-Aug 1998), 3A904
Fire design model for structural steel S420M based upon transient-state tensile test results, J Construct Steel Res **48**(1) 47-57 (Oct 1998), 3A905
Inelastic failure of high strength steel I-shaped beams, J Construct Steel Res **49**(1) 1-24 (Jan 1999), 4A627
Architectural pattern generation by discrete wavelet transform and utilization in structural design, Heron **43**(1) 29-45 (1998), 4A910
Development of the European wind loading Code, Progress Struct Eng Mat **1**(4) 436-442 (Jul 1998), 4A911
Structural steel research in Finland and the Baltic countries, J Construct Steel Res **49**(2) 107-221 (Feb 1999), 4A912
Recent developments and future trends in thin-walled structures, Thin-Walled Struct **32**(1-3) 3-230 (Sep-Nov 1998), 5A538
Design guide for steel frames using advanced analysis program, Eng Struct **21**(4) 352-364 (Apr 1999), 5A798
Simplified natural frequency prediction for timber floors, Proc Inst Civil Eng Struct Build **128**(4) 317-322 (Nov 1998), 5A799
Inverse component-mode synthesis method for redesign of large structural systems, Comput Methods Appl Mech Eng **166**(3-4) 201-209 (Nov 1998), 6A1046
Limit state design of masonry bearing walls with reference to British and European codes of practice, Adv in Struct Eng **2**(1) 49-56 (Nov 1998), 6A1047
Selected papers presented at the Seventh International Conference on Computing in Civil and Building Engineering, Struct Eng and Mech **6**(8) 841-969 (Dec 1998), 6T1048
Effect of ultimate-to-yield ratio on the bearing strength of bolted connections, J Construct Steel Res **49**(3) 255-269 (Mar 1999), 7A779
Effects of structural continuity on the fire resistance of concrete filled columns in non-sway frames, J Construct Steel Res **50**(2) 177-197 (May 1999), 8A869
Fracture assessment of a high strength structural steel on the basis of Eurocode 3, Mat Struct **32**(216) 144-150 (Mar 1999), 8A872
Structural design of closely packed horseshoe-shaped sewer linings during installation, Thin-Walled Struct **33**(1) 19-48 (Jan 1999), 8A873
Applicability of current ACI318 wall design formula for high strength concrete walls, Adv in Struct Eng **2**(2) 103-108 (Feb 1999), 9A996
Design of top concrete slabs of composite space trusses, Struct Eng and Mech **7**(3) 319-330 (Mar 1999), 9A997
Semi-rigid design of partially restrained columns in non-sway steel frames, J Construct Steel Res **50**(3) 305-328 (Jun 1999), 9A998
Seismic analysis of suspension bridge superstructures, Adv in Struct Eng **2**(2) 75-85 (Feb 1999), 9A1003
Load-slip characteristics of multi-nailed timber joints, Proc Inst Civil Eng Struct Build **134**(1) 31-43 (Feb 1999), 9A1007
Performance-based fire resistance design of concrete-filled steel columns, J Construct Steel Res **51**(1) 21-36 (Jul 1999), 10A1001
New buckling approximations for T-section ringbeams simply-supported at inner edge, Eng Struct **21**(10) 889-897 (Oct 1999), 11A596
Numerical study on RC flat plates subjected to combined axial and transverse load, Struct Eng and Mech **8**(2) 137-150 (Aug 1999), 11A905
Analytic-graphical method of proportioning of reinforced concrete flexural members (Polish), Inzynieria Budownictwo **54**(8) 408-413 (1998), 11A917
Cost-based design of residential steel roof systems: A case study, Struct Eng and Mech **8**(2) 165-180 (Aug 1999), 11A918
Description and analysis of fatigue phenomenon of concrete structures in design codes (Polish), Inzynieria Budownictwo **54**(8) 418-422 (1998), 11A919
Design formula for axially compressed perforated plates, Thin-Walled Struct **34**(1) 1-20 (May 1999), 11A920
Effective length of RC column according to EC2 and Pr-PN-B-03264 (Polish), Inzynieria Budownictwo **55**(4) 225-227 (1999), 11T921
Influence of slide and partial shear connection between concrete slab and steel girder on the deflection of composite construction (Polish), Inzynieria Budownictwo **55**(3) 152-154 (1999), 11A922
Lateral stability of long precast concrete beams, Proc Inst Civil Eng Struct Build **134**(2) 169-180 (May 1999), 11A923
Matching of steel plasticity according to Eurocode 3 (Polish), Inzynieria Budownictwo **54**(10) 555-557 (1998), 11T924
Shear strength of steel plate girders, Proc Inst Civil Eng Struct Build **134**(2) 147-157 (May 1999), 11A925
Spatial stability problem in design analysis of full-walled steel columns (Polish), Inzynieria Budownictwo **54**(10) 558-561 (1998), 11T926
Stability design of long precast concrete beams, Proc Inst Civil Eng Struct Build **134**(2) 159-168 (May 1999), 11A927
Strut-and-tie models for the analysis of pile caps, J Struct Eng (India) **25**(3) 203-206 (Oct 1998), 11T928
Local and distortional buckling of thin-walled short columns, Thin-Walled Struct **34**(2) 115-134 (Jun 1999), 12A670
Concrete composite constructions in the tradition and in the Polish and European standards (Polish), Inzynieria Budownictwo **55**(6) 319-324 (1999), 12T926
Elastic-plastic load carrying capacity of axially compressed aluminium struts, Arch Civil Eng **44**(4) 429-442 (1998), 12A927
New methods of strength estimation of the HILTI anchorages (Polish), Inzynieria Budownictwo **55**(5) 269-272 (1999), 12A928
Practical design method based on design code for controlling wind-induced vibration of tall buildings (Chinese), J Vib Eng **12**(2) 151-156 (Jun 1999), 12T929

282Y. Computational techniques

Neural Computing for Structural Mechanics (Saxe-Coburg Publications, UK, 1997) 1R1
Outer approximations approach to reliability-based optimal design of structures, J Optim Theory Appl **98**(1) 1-16 (Jul 1998), 1T961
Non-parametric-validated computer-simulation surrogates: A Pareto formulation, Int J Numer Methods Eng **42**(6) 971-1003 (Jul 1998), 1A1000
Object-oriented implementation of structural path-following, Comput Methods Appl Mech Eng **161**(1-2) 19-47 (Aug 1998), 1A1001
Computerized analysis of brickwork structures (Polish), Inzynieria Budownictwo **54**(7) 376-379 (1998), 2T974
Computing in civil and structural engineering, Adv Eng Software **29**(7-9) 499-750 (Aug-Nov 1998), 2A975
Global numerical analysis of elasto-plastic frames, Comput Assisted Mech Eng Sci **5**(1) 93-100 (1998), 2T976
Advances in Civil and Structural Engineering Computing for Practice (Civil-Comp, Edinburgh, UK, 1998) 3N17
Property-based optimal design of composite materials and their internal architectures, J Composite Mat **32**(19) 1714-1752 (1998), 3A585
Combined genetic and eigensensitivity algorithm for the location of damage in structures, Comput Struct **69**(5) 547-556 (Dec 1998), 3A906
Limit analysis for no-tension and frictional 3D discrete systems, Mech Struct Machines **26**(3) 287-304 (1998), 3A917
Applying virtual reality techniques to sensitivity-based structural shape design, J Mech Des **120**(4) 612-619 (Dec 1998), 3A975
Aspects in Modern Computational Structural Analysis (Balkema, Rotterdam, Netherlands, 1997) 5N18
Structural redesign by large admissible perturbations with static mode compensation, J Offshore Mech Arctic Eng **121**(1) 39-46 (Feb 1999), 5A800
Computational Methods for Solution of Inverse Problems in Mechanics (ASME, New York, 1998) 6N37
Inverse method for the identification of a distributed random excitation acting on a vibrating structure - Part I: Theory, Mech Syst Signal Processing **13**(1) 53-65 (Jan 1999), 7T331
Application of *a posteriori* error estimation for structural model updating, Inverse Prob **15**(1) 49-58 (Feb 1999), 7A854
Design of structures by a splitting method, Comput Struct **70**(4) 377-386 (Feb 1999), 7A855
Design of notch filters for structural responses with multiaxis coupling, J Guidance Control Dyn **22**(2) 349-357 (Mar-Apr 1999), 8T367
REDLOG-aided derivation of feasibility conditions in applied mechanics and engineering problems under simple inequality constraints, Strojnicky Casopis **50**(1) 58-69 (1999), 8A874
Spectral analysis of sensor data in civil engineering structures, Comput Struct **70**(6) 675-689 (Mar 1999), 8A875
Structural Nonlinear Analysis Workspace based on meshless methods, Adv Eng Software **30**(3) 153-175 (Mar 1999), 8A876
Generalized receptance-based method for accurate and efficient modal synthesis, Int J Numer Methods Eng **44**(11) 1749-1767 (Apr 1999), 9A999
Special Issue - Tension structures, Eng Struct **21**(8) 658-804 (Aug 1999), 9A1000
Soil-structure interaction in tall buildings by a discrete force method, Proc Inst Civil Eng Struct Build **134**(1) 9-18 (Feb 1999), 9A1495
Computer Aided Optimum Design of Structures (Comput Mech, Billerica MA, 1999) 10N17
Eigensolutions sensitivity analysis using a sub-structuring method, Comput Struct **71**(3) 257-265 (May 1999), 10A1003
Method for exact series solutions in structural mechanics, J Appl Mech **66**(2) 380-387 (Jun 1999), 10A1004
Introduction to the analysis of symmetric structures, Comput Struct **71**(6) 671-688 (Jun 1999), 11A929
Numerical model of wall diaphgrams in the wood frame sheated buildings (Polish), Inzynieria Budownictwo **55**(1) 23-25 (1999), 11T930
Rheological modeling and analysis of the fresh concrete compacting process subjected to harmonic vibrations, Appl Mech Eng **4**(S) 407-412 (1999), 11T931
Automatically dividing way of mesh for random particle model of concrete (Chinese), J Dalian Univ Tech **39**(3) 445-450 (May 1999), 12A47
Application of the FEM in dynamic analysis of steel frame foundations for rotary machines, Arch Civil Eng **44**(4) 391-427 (1998), 12A161
10th Anniversary of NoACM, Comput Struct **72**(4-5) 459-685 (Aug-Sep 1999), 12A930
Computer templates for structural design (Polish), Inzynieria Budownictwo **55**(6) 343-346 (1999), 12A931
Cooling of hardening concrete in massive slab elements (Polish), Inzynieria Budownictwo **55**(5) 273-276 (1999), 12A932
Interference galloping of two identical circular cylinders, Arch Civil Eng **44**(4) 371-389 (1998), 12A933
Simple FE-based framework for the analysis of elastic pseudo-rigid bodies, Int J Numer Methods Eng **45**(9) 1297-1314 (Jul 1999), 12A934
Static reanalysis for topological modifications of structures, Acta Mech Solida Sinica **12**(2) 155-164 (Jun 1999), 12A935

282Z. Experimental techniques

Experimental behavior of fiber concrete slabs on soil, Mech Cohesive-Frictional Mat **3**(3) 277-290 (Jul 1998), 1A983
Transversal reinforcements of RC corbels (Polish), Inzynieria Budownictwo **54**(6) 330-333 (1998), 2A977
Structural Faults and Repair, NDT&E Int **31**(6) 389-443 (Dec 1998), 4A864
Experimental and theoretical load data for design and integrity evaluations, Exp Tech **22**(6) 19-22 (Nov-Dec 1998), 5A801
Testing of a steel-free concrete bridge, Exp Tech **22**(6) 39-42 (Nov-Dec 1998), 5T802
Experimental study to determine the tension softening curve of concrete (Japanese), Proc JSCE **606**(V-41) 75-88 (Nov 1998), 6A1036
Effectiveness and optimization of fiber Bragg grating sensor as embedded strain sensor, Smart Mat Struct **8**(1) 154-160 (Feb 1999), 8A435
Experimental characterization of ultrasonic phased arrays for the NDE of concrete structures, Mat Eval **57**(2) 134-140 (Feb 1999), 8A822
Method of optimization of structures, Exp Tech **23**(2) 26-30 (Mar-Apr 1999), 9A964
Shape measurements on large surfaces by fringe projection, Exp Tech **23**(2) 31-35 (Mar-Apr 1999), 9A1001
Heat of hydration and strength development in high-performance concretes, Arch Civil Eng **44**(2) 199-215 (1998), 10A1005
Model testing, Mech Syst Signal Processing **13**(2) 183-366 (Mar 1999), 10A1006
Analysis of the influence of crane rail elastic fastening on operational properties of the crane beam (Polish), Inzynieria Budownictwo **54**(8) 414-417 (1998), 11A932
New additive improving quality of cement concretes (Polish), Inzynieria Budownictwo **55**(2) 85-88 (1999), 11A933
Experimental analysis of a hybrid bicycle frame, Exp Tech **23**(3) 21-24 (May-Jun 1999), 11A957
Studies of failure of high-strength concrete, Eng Trans **46**(3-4) 333-351 (1998), 12A873
Cooling of hardening concrete in massive slab elements (Polish), Inzynieria Budownictwo **55**(5) 273-276 (1999), 12A932
Investigation of structural elements constructed from nonclassified round timber (Polish), Inzynieria Budownictwo **55**(5) 280-283 (1999), 12T936
Prestressing of concrete at early age as the method of elimination of cracks due to thermal and shrinkage distortions (Polish), Inzynieria Budownictwo **55**(6) 327-330 (1999), 12A937
Variability of physical parameters of polistyrene and the moisture state of selected walls (Polish), Inzynieria Budownictwo **55**(5) 284-286 (1999), 12A938

284. STRUCTURES (GROUND)

284B. Bridges

Distribution of support reaction against a steel girder on a launching shoe, J Construct Steel Res **47**(3) 245-270 (Sep 1998), 1A917
Seismic performance behavior of beam-column connections in prestressed concrete bridges, Mat Struct **31**(210) 411-417 (Jul 1998), 1A986
Dynamic analysis of floating bridges, Marine Struct **11**(1-2) 29-46 (Jan-Feb 1998), 1A992
Dynamic analysis of the pedestrian bridge over the Allmandring in Stuttgart (German), Bauingenieur **73**(6) 274-282 (Jun 1998), 1A993
Cyclic response of bridge knee joints with circular columns, J Earthquake Eng **2**(3) 357-390 (Jul 1998), 2A894
Limit bearing capacity of cantilevered bridges as the complexion of random factors (Polish), Inzynieria Budownictwo **54**(5) 274-276 (1998), 2A978
Mixture ratio of concrete class B50 used for expressway bridge bearing structure over the Vistual near Torun (Polish), Inzynieria Budownictwo **54**(4) 186-191 (1998), 2T979
New system of shear devices in bridge composite girders (Polish), Inzynieria Budownictwo **54**(5) 239-243 (1998), 2A980
Settlements of the supports of road bridge over the Vistual near Torun (Polish), Inzynieria Budownictwo **54**(4) 202-204 (1998), 2T981
Shear lag effect in single plane cable-stayed bridge, Adv in Struct Eng **1**(4) 301-306 (Jul 1998), 2A982
Study of system reliability improvement for Neuro-Fuzzy Bridge Rating Expert System (Japanese), Proc JSCE **598**(I-44) 47-63 (Jul 1998), 3A894
Design assessment of highway steel bridges using steel weight data-base (Japanese), Proc JSCE **598**(I-44) 359-370 (Jul 1998), 3A907

Experimental study on the effect of fiber reinforced rubber-rolled pin of the bridge restrainer plate system (Japanese), Proc JSCE **598**(I-44) 333-346 (Jul 1998), 3A908
Flutter analysis of bridge deck using unsteady aerodynamic forces based on general oscillation (Japanese), Proc JSCE **598**(I-44) 311-322 (Jul 1998), 3A909
Practical cable tension adjustment based upon the satisfaction concept of bridge designers (Japanese), Proc JSCE **598**(I-44) 381-390 (Jul 1998), 3A910
Study of mode coupling in flutter and buffeting of the Akashi-Kaikyo bridge, Proc JSCE **598**(I-44) 21-36 (Jul 1998), 3A911
Ultimate strength analysis of long-span cable-stayed bridges (Japanese), Proc JSCE **598**(I-44) 171-181 (Jul 1998), 3A912
Effect of pier base restraint on ultimate seismic behavior of single-post type steel bridge piers (Japanese), Proc JSCE **598**(I-44) 413-426 (Jul 1998), 3A1467
Fatigue resistance for dynamic bridge deck movements on the grid panel type buried joint (Japanese), Proc JSCE **599**(V-40) 143-153 (Aug 1998), 4T773
Seismic behavior of cable-stayed bridges under multi-component random ground motion, Eng Struct **21**(1) 62-74 (Jan 1999), 4A913
Upstand FE analysis of slab bridges, Comput Struct **69**(6) 671-683 (Dec 1998), 4A914
Time-varying reliability model of steel girder bridges, Proc Inst Civil Eng Struct Build **128**(4) 359-367 (Nov 1998), 5A780
Vibration characteristics and dynamic increment factor of 2 span continuous PC cable-stayed bridge under moving vehicles (Japanese), Proc JSCE **605**(I-45) 37-47 (Oct 1998), 6A196
Evaluation of the structural integrity of timber bridges, NDT&E Int **32**(1) 43-48 (Jan 1999), 6A996
Ultrasonic instrumentation for measuring applied stress on bridges, J Nondestruct Eval **17**(3) 141-152 (Sep 1998), 6A1000
Optimal design of passive energy dissipation devices for seismic protection of bridges (Japanese), Proc JSCE **605**(I-45) 241-252 (Oct 1998), 6A1018
Computation of the influence lines for lateral load distribution in straight, skew and horizontally curved bridges, Adv in Struct Eng **2**(1) 1-16 (Nov 1998), 6A1049
Nonlinear suspension bridge equation with nonconstant load, Nonlinear Anal **35**(6) 649-669 (Mar 1999), 6T1050
Study on durability of porous pavement on bridge-decks by immersion wheel tracking test (Japanese), Proc JSCE **606**(V-41) 21-29 (Nov 1998), 6A1051
Application of neural networks to the dynamic analysis of nonlinear hysteretic behavior of high damping rubber bearings (Japanese), Proc JSCE **605**(I-45) 29-36 (Oct 1998), 6A1102
Sizing a hydromechanical servodrive for the active control of the runnability of cable-stayed bridges: Trade-off between different techniques, Appl Math Model **23**(3) 175-198 (Mar 1999), 7A825
Fatigue reliability assessment of highway bridges using new parameters (Japanese), J Soc Mat Sci Japan **47**(12) 1233-1238 (Dec 1998), 7A833
Reliability approach to fatigue damage prediction of highway bridges with the effect of traffic-induced vibration under consideration (Japanese), J Soc Mat Sci Japan **47**(12) 1239-1244 (Dec 1998), 7A840
Statistical analysis of bridge damage data from the 1994 Northridge, CA earthquake, Earthquake Spectra **15**(1) 25-33 (Feb 1999), 8A1507
Structural testing of DARPA-BIR composite army bridge treadway, Composite Struct **44**(2-3) 99-115 (Feb-Mar 1999), 9A670
Optimum design of cable-stayed bridges, Struct Eng and Mech **7**(3) 241-257 (Mar 1999), 9A966
Prestressed concrete box girder bridges with folded steel plate webs, Proc Inst Civil Eng Struct Build **134**(1) 77-85 (Feb 1999), 9A989
Theory and application of the hard inclusion techniques for the measurements of *in situ* stresses in prestressed concrete box-girder bridges, Proc Inst Civil Eng Struct Build **134**(1) 57-65 (Feb 1999), 9A990
Active aerofoil stabilization of cable-supported bridge decks, Proc Inst Civil Eng Struct Build **134**(1) 67-76 (Feb 1999), 9A1002
Seismic analysis of suspension bridge superstructures, Adv in Struct Eng **2**(2) 75-85 (Feb 1999), 9A1003
Use of post-tensioning in strengthening steel girder-slab type bridges, Arab J Sci Eng **23**(2C) 195-206 (Dec 1998), 9A1004
Modeling aspects in the nonlinear FE analysis of cable supported bridges, Comput Struct **71**(4) 397-412 (May 1999), 10A1007
Probabilistic evaluation of seismic damage states of bridge structure system (Japanese), Proc JSCE **613**(V-42) 31-42 (Feb 1999), 10A1008
Bridge Aerodynamics (Balkema, Rotterdam, Netherlands, 1998) 11N13
Finite-element analysis of masonry arch bridges, Proc Inst Civil Eng Struct Build **134**(2) 119-127 (May 1999), 11A34
Evaluation of the deformation characteristics on weathered granite for large-scale bridge foundation (Japanese), Proc JSCE **617**(III-46) 19-29 (Mar 1999), 11T645
Effect of excitation type on dynamic system parameters of a reinforced concrete bridge, Struct Eng and Mech **7**(4) 387-400 (Apr 1999), 11A895
Consideration on aerodynamic stability of bridge structures due to isolating device at movable supports (Japanese), Proc JSCE **616**(VI-42) 125-130 (Mar 1999), 11A934
Development of bridge technology by applying high quality concrete (Japanese), Proc JSCE **616**(VI-42) 1-11 (Mar 1999), 11T935
Dimensional deviations of RC bridge girder built by balanced centilever methods as a latent load on temporary supports (Polish), Inzynieria Budownictwo **55**(4) 214-217 (1999), 11T936
Effect of cable stiffness on a cable-stayed bridge, Struct Eng and Mech **8**(1) 27-38 (Jul 1999), 11A937
Estimation of the bearing capacity of existing railway bridges according to the present designing standards (Polish), Inzynieria Budownictwo **54**(8) 428-431 (1998), 11A938
Evaluation of the useful bearing capacity of existing railway bridges (Polish), Inzynieria Budownictwo **54**(10) 571-573 (1998), 11T939
How to minimize endangers of bridges caused by floods? (Polish), Inzynieria Budownictwo **55**(3) 140-145 (1999), 11A940
Information modeling for case-based construction planning of highway bridge projects, Adv Eng Software **30**(7) 495-509 (Jul 1999), 11A941
Loading of bridges with heavy road vehicles (Polish), Inzynieria Budownictwo **55**(3) 163-167 (1999), 11A942
Numerical analysis of progressive failure of the truss bridge (Polish), Inzynieria Budownictwo **55**(3) 146-151 (1999), 11A943
Use of eccentric beam elements in the analysis of slab-on-girder bridges, Struct Eng and Mech **8**(1) 85-102 (Jul 1999), 11A944
Optimal geometries of shape controlled structures, Mech Struct Machines **27**(2) 143-162 (1999), 12A892
Study on the active control of flutter of long-span cable-stayed bridge (Chinese), J Vib Eng **12**(2) 286-291 (Jun 1999), 12T917

284C. Dams and spillways

Probabilistic FE analysis of concrete gravity dams, Adv Eng Software **29**(2) 97-104 (Mar 1998), 1A1002
Modeling of contraction joint and shear sliding effects on earthquake response of arch dams, Earthquake Eng Struct Dyn **27**(10) 1013-1029 (Oct 1998), 3A913
Study of calculation method of permanent deformation due to earthquake of concrete faced rock-fill dam (Chinese), J Dalian Univ Tech **38**(5) 580-585 (Sep 1998), 4A1499
Efficient nonlinear seismic analysis of arch dams, Earthquake Eng Struct Dyn **27**(12) 1425-1444 (Dec 1998), 5A803
Rehabilitation of the spillway of Sama El-Serhan dam in Jordan using roller compacted concrete, Eng Struct **21**(6) 497-506 (Jun 1999), 6A1052
Simulation analysis of dynamic water pressures and displacements measured on forced vibration test of arch dam (Japanese), Proc JSCE **605**(I-45) 15-28 (Oct 1998), 6A1053
Nonlinear seismic behavior of concrete gravity dams using coupled FE-BE technique, Int J Numer Methods Eng **44**(1) 101-130 (Jan 1999), 6A1495
Finite element analysis of construction stability of Thika Dam, Comput Geotech **23**(4) 205-219 (1998), 7A856
Two-dimensional elastica analysis of equilibrium shapes of single-anchor inflatable dams, Int J Solids Struct **36**(9) 1383-1398 (Mar 1999), 7A857

284D. Tunnels

Model testing of closely spaced tunnels in clay, Geotechnique **48**(3) 375-388 (Jun 1998), 2A983
Three-dimensional FE analysis of tunnels and foundations, Heron **42**(4) 183-214 (1997), 2A984
Properties of high-strength shotcrete made with various materials and an application for large scale tunnel (Japanese), Proc JSCE **602**(VI-40) 123-137 (Sep 1998), 5T804
Tunnel support mechanism of shotcreting (Japanese), Proc JSCE **603**(III-44) 11-20 (Sep 1998), 5A805
Dynamic analysis of 19-span continuous space frame bridge with lead rubber bearings based on vibration tests (Japanese), Proc JSCE **605**(I-45) 49-60 (Oct 1998), 6T193
Response of a buried structure to surface repetitive loading, Eng Struct **21**(5) 416-424 (May 1999), 6A1054
Model vibration tests to verify the seismic isolation effect for rectangular tunnel (Japanese), Proc JSCE **605**(I-45) 203-215 (Oct 1998), 6A1494
Construction management system of super workable concrete at Kobe Minatojima tunnel (Japanese), Proc JSCE **609**(VI41) 15-27 (Dec 1998), 7A858
Parameter estimation using extended Bayesian method in tunneling, Comput Geotech **24**(2) 109-124 (1999), 9A760
Stress and displacement fields around a deep circular tunnel with partial sealing, Comput Geotech **24**(2) 124-140 (1999), 9A1005
Theoretical construction of characteristic curve of tunnel-support from a 2D elastic solution (Japanese), Proc JSCE **617**(III-46) 139-149 (Mar 1999), 11A945

284E. Frames, trusses, and arches

Discrete optimal design of elastoplastic trusses using compliance and stability constraints, Struct Optim **15**(3-4) 261-268 (Jun 1998), 1A944
Reliability of microwave towers against extreme winds, Struct Eng and Mech **6**(5) 555-569 (Jul 1998), 1A980
Design guidelines of truss structures for damping control (Chinese), J Vib Eng **11**(2) 144-151 (Jun 1998), 1A997
Static strength of multiplanar tubular TX-joints under axial loading excluding the effects of overall chord bending moments, J Construct Steel Res **47**(1-2) 141-168 (Jul 1998), 1A999
Configurations of double-layer space trusses, Struct Eng and Mech **6**(5) 543-554 (Jul 1998), 1A1003
Effect of joint eccentricity on the distribution of forces in RHS lattice girders, J Construct Steel Res **47**(3) 211-221 (Sep 1998), 1A1004
Improving the efficiency of genetic algorithms for frame designs, Eng Optim **30**(3-4) 281-307 (May 1998), 1A1005
New nonlinear connection classification system, J Construct Steel Res **47**(1-2) 119-140 (Jul 1998), 1A1006
Sensitivity analysis of frame structures and its applications to structural design (Chinese), J Dalian Univ Tech **38**(4) 426-431 (Jul 1998), 1A1007
Use of dynamic characteristics for the optimal design of arches, Comput Struct **68**(5) 461-472 (Sep 1998), 1A1008
Use of small scale model testing to compare connection methods of steel purlins, Struct Eng and Mech **6**(5) 571-582 (Jul 1998), 1A1009
Investigation of the failure of a space truss subjected to earthquake, Adv in Struct Eng **1**(4) 307-311 (Jul 1998), 2A960
Application of kinematic method for estimation of influence function of internal forces in rod systems (Polish), Inzynieria Budownictwo **54**(7) 372-375 (1998), 2T985
Practical application of the semi-rigid joint models in global analysis (Polish), Inzynieria Budownictwo **54**(7) 366-371 (1998), 2T986
Shape optimal design of elastic space frames with nonlinear response, Int J Numer Methods Eng **43**(1) 93-110 (Sep 1998), 2A987
Nonlinear behavior and design of steel frames and members, J Construct Steel Res **48**(2-3) 63-209 (Nov-Dec 1998), 3A639
Optimum design of unbraced rigid frames, Comput Struct **69**(4) 433-442 (Nov 1998), 3A882
Analysis of slackened skeletal structures by mathematical programming, Comput Struct **69**(5) 639-654 (Dec 1998), 3A914
Definitions and feasibility studies of tensegrity systems, Int J Space Struct **13**(1) 41-47 (1998), 3T915
General study of tensegrity grids of bar-to-bar connection, Int J Space Struct **13**(1) 29-33 (1998), 3T916
Limit analysis for no-tension and frictional 3D discrete systems, Mech Struct Machines **26**(3) 287-304 (1998), 3A917
Linear Complementary Equation method applied in the load response of cable-strut systems, Int J Space Struct **13**(1) 35-40 (1998), 3A918
Numerical approach to the "exact" FE analysis of in-plane finite displacements of framed structures, Comput Struct **69**(4) 525-535 (Nov 1998), 3A919
Minimum weight shape and size optimization of truss structures made of uncertain materials, Struct Optim **16**(2-3) 147-154 (Oct 1998), 4A875
Studies of the behavior of steel subframes with semi-rigid connections in fire, J Construct Steel Res **49**(1) 83-98 (Jan 1999), 4A909
Structural steel research in Finland and the Baltic countries, J Construct Steel Res **49**(2) 107-221 (Feb 1999), 4A912
Effect of force limiting devices on behavior of space trusses, Eng Struct **21**(1) 34-44 (Jan 1999), 4A915
Load distribution modeling for pin-jointed trusses by an inverse approach, Comput Methods Appl Mech Eng **165**(1-4) 291-306 (Nov 1998), 4A916
Mixed formulation and locking in path-following nonlinear analysis, Comput Methods Appl Mech Eng **165**(1-4) 247-272 (Nov 1998), 4A917
Sensitivity analysis of truss structures: Virtual distortion method approach, Int J Numer Methods Eng **43**(6) 1085-1108 (Nov 1998), 4A918
Studies on post-tensioned and shaped space-truss domes, Struct Eng and Mech **6**(6) 693-710 (Sep 1998), 4A919
Structural repair and strengthening of the steel structures of ship unloaders, Proc Inst Civil Eng Struct Build **128**(4) 368-375 (Nov 1998), 5A28
Design guide for steel frames using advanced analysis program, Eng Struct **21**(4) 352-364 (Apr 1999), 5A798
Post-Northridge earthquake seismic steel moment connections, Earthquake Spectra **14**(4) 659-677 (Nov 1998), 5A1484
Seismic performance of moment-resisting steel frame structures designed for different levels of seismic hazard, Earthquake Spectra **14**(4) 597-627 (Nov 1998), 5A1486
Multiobjective and multilevel optimization for steel frames, Eng Struct **21**(6) 519-529 (Jun 1999), 6A1015
Optimal joint positions and stiffness distribution for minimum mass frames with damping constraints, Struct Optim **16**(4) 231-245 (Dec 1998), 6A1019
Shake table tests on prestressed concrete frames, Mat Struct **31**(214) 676-682 (Dec 1998), 6A1043
Failure mode and strength of space truss compression chord members, Eng Struct **21**(5) 395-405 (May 1999), 6A1055
Seismic analysis and response of multistory semirigid frames, Eng Struct **21**(5) 425-441 (May 1999), 6A1056
Elastic-plastic behavior of a shallow two bar truss, Int J Mech Sci **41**(6) 663-675 (Jun 1999), 7A498
Numerical analysis of dynamic stability of elastic truss structures, Int J Space Struct **13**(2) 75-81 (1998), 7A606
Experimental behavior of end plate connections reinforced with bolted backing angles, J Construct Steel Res **50**(1) 71-96 (Apr 1999), 7A859
Maximum modulus eccentricities surface for masonry vaults and limit analysis, Math Mech Solids **4**(1) 71-87 (Mar 1999), 7A860
Physical instability and geometric effects in frames, Eng Struct **21**(7) 557-567 (Jul 1999), 7A861
Strength and rotational response of moment connections to tubular columns using flowdrill connectors, J Construct Steel Res **50**(1) 1-14 (Apr 1999), 7A862
Strength and rotational stiffness of simple connections to tubular columns using flowdrill connectors, J Construct Steel Res **50**(1) 15-34 (Apr 1999), 7A863
Softening effects on the seismic response of non-ductile concrete frames, J Earthquake Eng **3**(1) 59-81 (Jan 1999), 7A1568
Braced frames with hysteretic dissipative devices: Seismic response and design criteria, J Earthquake Eng **3**(1) 33-57 (Jan 1999), 7A1570
Dynamic analysis of framed structures with statistical uncertainties, Int J Numer Methods Eng **44**(8) 1157-1178 (Mar 1999), 8A172
Experimental studies of the behavior of unprotected steel frames in fire, J Construct Steel Res **50**(2) 137-150 (May 1999), 8A870
Dynamic analysis of trusses including the effect of local modes, Struct Eng and Mech **7**(1) 81-94 (Jan 1999), 8A877
Inverse perturbation method on inverse solution of eigenvalue problem for truss structure (Chinese), J Dalian Univ Tech **38**(6) 677-681 (Nov 1998), 8A878
Simulation of damage in RC frames with variable axial forces, Earthquake Eng Struct Dyn **28**(3) 311-328 (Mar 1999), 8A879
FRC-steel joist composite frames for seismic resistance, Earthquake Spectra **15**(1) 87-104 (Feb 1999), 8A1503
Semi-rigid design of partially restrained columns in non-sway steel frames, J Construct Steel Res **50**(3) 305-328 (Jun 1999), 9A998
Special Issue - Tension structures, Eng Struct **21**(8) 658-804 (Aug 1999), 9A1000
Experimental study of composite space trusses with continuous chords, Adv in Struct Eng **2**(3) 219-232 (May 1999), 9A1006
Load-slip characteristics of multi-nailed timber joints, Proc Inst Civil Eng Struct Build **134**(1) 31-43 (Feb 1999), 9A1007
Motion planning of kinematically redundant adaptive truss: Use of redundancy for vibration reduction, JSME Int J Ser C **41**(4) 852-859 (Dec 1998), 9A1008
Nonlinear analysis of plane frames using rigid body-spring discrete element method, Comput Struct **71**(1) 105-119 (Apr 1999), 9A1009
Retractable roof structures, Proc Inst Civil Eng Struct Build **134**(1) 45-56 (Feb 1999), 9A1010
Evaluation of the total ductility in steel structures through a nonconvex energy optimization approach, Eng Struct **21**(9) 810-822 (Sep 1999), 10A1009
Modeling of connections in the analyses of thin-walled space frames, Comput Struct **71**(4) 423-433 (May 1999), 10A1010
Rigid-plastic collapse of grids with bending-torsion interaction and distributed loading effects, Comput Struct **71**(4) 371-381 (May 1999), 10A1011

Response of 3D framed structures under floor excitations, J Struct Eng (India) **25**(4) 251-254 (Jan 1999), 11T915
Elastic analysis of one plane cyclic truss-type structure, Composite Mech Des **3**(2) 32-43 (1997), 11A946
Experimental and analytical studies on a double layered flat space grid using indigenous connector system, J Struct Eng (India) **25**(4) 245-249 (Jan 1999), 11A947
New model for lateral stiffness of shear walls with openings, J Struct Eng (India) **25**(2) 103-107 (Jul 1998), 11A948
Practical aspect of design of steel frames with semi-rigid joints (Polish), Inzynieria Budownictwo **54**(10) 549-554 (1998), 11T949
Topology optimization of truss structures with systematic reliability constraints under multiple loading cases, Acta Mech Solida Sinica **12**(2) 165-173 (Jun 1999), 12A923
Behavior of frames with semi-rigid joints (Polish), Inzynieria Budownictwo **55**(6) 331-336 (1999), 12A939
Fully automatic force method for the optimal shakedown design of frames, Comput Mech **23**(4) 299-307 (May 1999), 12A940

284G. Buildings

Dynamic wind effects: A comparative study of provisions in codes and standards with wind tunnel data, Wind Struct **1**(1) 77-109 (Mar 1998), 1A1010
Stochastic modeling of thermal performance for a heated building, Arch Civil Eng **43**(4) 415-430 (1997), 1T1011
Spatial stiffening diaphragm systems, Int J Space Struct **13**(1) 23-27 (1998), 3T920
Elastic Analysis of Raft Foundations (Telford, UK, 1998) 5R14
Assessment of wind load factors for hurricane-prone regions, Struct Safety **20**(3) 271-281 (1998), 5A806
Wind Effects on Building and Structures (Balkema, Rotterdam, Netherlands, 1998) 6N11
Full scale measurements of damping in a 78-story tall building, Adv in Struct Eng **2**(1) 41-48 (Nov 1998), 6A126
Free vibration analysis of multi-story buildings with narrow rectangular plane configuration, Eng Struct **21**(6) 507-518 (Jun 1999), 6A1057
Dynamic response of wood-frame shear walls with viscoelastic dampers, Earthquake Spectra **15**(1) 67-86 (Feb 1999), 8A1501
Overall evaluation of irregular-floor-plan: Shaped buildings located in seismic areas, Earthquake Spectra **15**(1) 105-120 (Feb 1999), 8A1505
Optimum floorplan topology for minimizing the damaging effects of live loads in building structures, Comput Struct **71**(2) 163-172 (Apr 1999), 9A1011
Soil-structure interaction in tall buildings by a discrete force method, Proc Inst Civil Eng Struct Build **134**(1) 9-18 (Feb 1999), 9A1495
Structural identification of the model of a high building using a rapid release of a tensioned rope, Arch Civil Eng **44**(3) 271-285 (1998), 10T1012
Appraisal of the transverse integration of precast composite floors (Polish), Inzynieria Budownictwo **55**(2) 103-108 (1999), 11T950
Strength and deformability experimental tests of wood framed shear walls (Polish), Inzynieria Budownictwo **55**(4) 208-210 (1999), 11T951
Thermal loading as the reason of damages in multistory panel wall buildings (Polish), Inzynieria Budownictwo **55**(1) 32-36 (1999), 11T952
Application of Brak-down lines theory for evaluation of bearing capacity of the damaged floor slab (Polish), Inzynieria Budownictwo **55**(5) 256-258 (1999), 12T941
Development of a strength grading system for small diameter roundwood, Heron **43**(4) 183-197 (1998), 12A942
Estimation of state of existing construction by visual inspection (Polish), Inzynieria Budownictwo **55**(5) 287-290 (1999), 12T943

284J. Other ground structures

Bearing stone bell and the cupola of the Dresden church of our lady (German), Bauingenieur **73**(6) 259-266 (Jun 1998), 1A1012
Shallow floor construction with deep composite deck: From fire tests to simple calculation rules, Heron **42**(3) 145-158 (1997), 2A988
Stability and postbuckling of a platform with flexible legs resting on a slippery surface, Mech Struct Machines **26**(3) 277-286 (1998), 3A921
Moment-curvature relationships to estimate deflections and second-order moments in wind-loaded RC chimneys and towers, Wind Struct **1**(3) 255-269 (Sep 1998), 5A787
Experimental study of the behavior of embedded lengths of cantilever walls, Geotechnique **48**(6) 731-745 (Dec 1998), 6A1058
Lower bound shakedown analysis of layered pavements using discontinuous stress fields, Comput Methods Appl Mech Eng **167**(3-4) 209-222 (Dec 1998), 6A1059
Mathematical modeling of railway track geometrical layouts, Arch Civil Eng **44**(2) 183-198 (1998), 10T1013
Hydraulic pressing of pipes through the terrain obstacles (Polish), Inzynieria Budownictwo **54**(12) 698-702 (1998), 11A953
New approach to analysis and diagnostics of ancient relictic structures (Polish), Inzynieria Budownictwo **54**(9) 470-476 (1998), 11T954
Proposal of a rational design method for buried flexible pipes (Japanese), Proc JSCE **617**(III-46) 49-63 (Mar 1999), 11A955
Fatigue cracks in crane beams of a steel overbead rail (Polish), Inzynieria Budownictwo **55**(5) 277-280 (1999), 12T944

286. STRUCTURES (OCEAN AND COASTAL)

286B. Coastal structures

Strength and ductility of cylindrical steel piers subjected to cyclic lateral load (Japanese), Proc JSCE **598**(I-44) 125-135 (Jul 1998), 3A922
Structural repair and strengthening of the steel structures of ship unloaders, Proc Inst Civil Eng Struct Build **128**(4) 368-375 (Nov 1998), 5A28
Study on horizontal plastic ground reaction of pier foundation with inclined loads (Japanese), Proc JSCE **610**(III45) 69-82 (Dec 1998), 7A634
Technology to restore the inclined RC T type pier with the plastic hinge (Japanese), Proc JSCE **609**(VI41) 39-49 (Dec 1998), 7T864
Seismic performance of reinforced concrete high pier with hollow section (Japanese), Proc JSCE **613**(V-42) 103-120 (Feb 1999), 10A1551
Sliding control to the stability of breakwater (Chinese), J Vib Eng **12**(2) 244-249 (Jun 1999), 12T945

286C. Marine applications

Buckling and postbuckling of composite ship panels stiffened with preform frames, Ocean Eng **26**(8) 793-803 (Aug 1999), 7T1113
Dynamic response of a pile in a multi-layered soil to transient torsional and axial loading, Geotechnique **49**(1) 91-109 (Feb 1999), 9A1012
Ship Collision Analysis (Balkema, Rotterdam, Netherlands, 1998) 11N22
Inelastic behavior of anisotropic frictional materials, Mech Cohesive-Frictional Mat **4**(3) 281-293 (May 1999), 11A956
Reliability analysis for ultimate strength of ship hull girder (Chinese), J Shanghai Jiaotong Univ **33**(3) 365-367 (Mar 1999), 12A922
MSE and FE modeling of thrusts to elastic joints of long vertical pipe in 3D nonlinear motions, Int J Offshore Polar Eng **9**(2) 117-125 (Jun 1999), 12A946
Nonlinear response analysis of a towed seafloor plow, Int J Offshore Polar Eng **9**(2) 112-116 (Jun 1999), 12A947

286D. Offshore (fixed platforms, etc)

Dynamic analysis of floating bridges, Marine Struct **11**(1-2) 29-46 (Jan-Feb 1998), 1A992
Fatigue life of cathodically protected tubular joints of offshore structures, J Offshore Mech Arctic Eng **120**(4) 232-236 (Nov 1998), 2A837
Structural reliability analysis using artificial neural nets (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 167-179 (1998), 2A952
Computer package for the design of piles under cyclic tensile load, Comput Struct **69**(2) 149-158 (Oct 1998), 2A989
Nonlinear dynamic analysis of offshore jack-up units, Comput Struct **69**(2) 171-180 (Oct 1998), 2A990
Application of constraint based fracture mechanics to engineering structures, Nucl Eng Des **184**(1) 77-88 (Aug 1998), 3A839
Ultimate strength of a double-tee tubular joint subjected to combined chord compression and brace out-of-plane bending, J Strain Anal Eng Des **33**(5) 385-394 (Sep 1998), 5A550
Investigation into the effect of circumferential through-wall slits on a cantilevered pipe subjected to a transverse end load, Proc Inst Mech Eng E **212**(E3) 163-170 (1998), 5A807
Stochastic Response of Offshore Platforms (Comput Mech, Billerica MA, 1998) 6R17
Effect of impact damage on the capacity of tubular steel members of offshore structures, Marine Struct **11**(4-5) 141-157 (May-Jun 1998), 6A1060
Parametric study of the nonlinear dynamic behavior of an offshore jack-up unit, Eng Struct **21**(5) 383-394 (May 1999), 6A1061
Effects of low sound velocity and gravity on wave propagation in oceanic structure (Japanese), Proc JSCE **605**(I-45) 153-160 (Oct 1998), 6A1503
Analysis on penetration of bucket foundation (Chinese), J Shanghai Jiaotong Univ **32**(11) 110-113 (Nov 1998), 7A865
Prediction of degree of bending in tubular X and DT joints, Int J Fatigue **21**(2) 147-161 (Feb 1999), 7A866
Simplified method for the frequency analysis of offshore structures with inclined members (French), Rev Francaise Mec **0**(4) 289-295 (Dec 1998), 7A867
Numerical simulations of wind forces in Troll B, Marine Struct **11**(7-8) 273-289 (Aug-Sep 1998), 8A880
Theoretical model for predicting the strength of ring-stiffened tubular T-joints in offshore structures, Proc Inst Civil Eng Struct Build **134**(1) 19-31 (Feb 1999), 9A1013
Proceedings of the 1999 Energy Sources Technology Conference (ASME, New York, 1999) 10N33
Prediction of stress distributions along the intersection of tubular Y and T-joints, Int J Fatigue **21**(4) 361-381 (Apr 1999), 10A513
Direct spectral fatigue analysis method for offshore structures, Int J Offshore Polar Eng **9**(1) 55-61 (Mar 1999), 10A865
Reliability-based design format for jacket platforms under wave loads, Marine Struct **11**(10) 413-428 (Dec 1998), 10A986
Limit-force ice loads and their significance to offshore structures in the Beaufort sea, Int J Offshore Polar Eng **8**(1) 16-21 (Mar 1998), 10A1598
Significance of ice sheet's leading-edge roughness in relation to ice load, Int J Offshore Polar Eng **8**(3) 161-166 (Sep 1998), 10A1600
Parametric equations to predict stress distributions along the intersection of tubular X and DT-joints, Int J Fatigue **21**(6) 619-635 (Jul 1999), 11A461
Experimental investigation of tubular T-joints under cyclic loads, J Offshore Mech Arctic Eng **121**(3) 137-143 (Aug 1999), 11A732
Nondestructive detection of cracks in tubular T-joints using vibration characteristics, J Offshore Mech Arctic Eng **121**(3) 144-152 (Aug 1999), 11A853
Nonlinear open-close loop active control of articulated leg platform, Int J Offshore Polar Eng **9**(2) 141-148 (Jun 1999), 12A431
Direct spectral fatigue analysis method for offshore structures, Int J Offshore Polar Eng **9**(2) 134-140 (Jun 1999), 12A803

286E. Offshore, mobile

BOSS 97': Behaviour of Offshore Structures (Elsevier Sci, UK, 1997) 1N15
Transient response analysis of a very large floating structure by FEM, Proc JSCE **598**(I-44) 1-9 (Jul 1998), 3A267
Finite element analysis for wave response of large floating structures (Japanese), Proc JSCE **598**(I-44) 161-170 (Jul 1998), 3A923
Dynamic response and reliability analysis of large offshore structures, Comput Methods Appl Mech Eng **168**(1-4) 255-272 (Jan 1999), 7A868
Seismic risk analysis of mega-floating structure and dolphin system, J Offshore Mech Arctic Eng **121**(2) 95-101 (May 1999), 9A1497
Structural design of process decks for floating production, storage, and offloading units, Marine Struct **11**(10) 403-412 (Dec 1998), 10A1014
Survival analysis of a deep-water floating offshore platform about its critical axis including coupling, Int J Offshore Polar Eng **8**(2) 115-121 (Jun 1998), 10A1248

286F. Underwater structures and habitats

Hydrodynamic loads on subsea robots, Ocean Eng **26**(8) 805-812 (Aug 1999), 7A948
Collapse behavior of intact and damaged deepwater pipelines and the influence of the reeling method of installation, J Construct Steel Res **50**(2) 99-114 (May 1999), 8A1560

288. STRUCTURES (MOBILE)

288B. Ground vehicles (incl tires)

Measure of stability for mobile manipulators with application to heavy-duty hydraulic machines, J Dyn Syst Meas Control **120**(3) 360-370 (Sep 1998), 1A465
Active roll-moment control strategy for narrow tilting commuter vehicles, Vehicle Syst Dyn **29**(5) 277-307 (May 1998), 2A523
Experimental study of a prototype active anti-roll suspension system, Vehicle Syst Dyn **29**(5) 309-329 (May 1998), 2A528
Alternative control strategy for semi-active dampers on off-road vehicles, J Terramech **35**(1) 25-40 (Jan 1998), 2A991
Evaluation of an empirical traction equation for forestry tires, J Terramech **35**(1) 55-67 (Jan 1998), 2A992
Experimental analysis of soil reaction on a lug of a movable lug wheel, J Terramech **35**(2) 119-135 (Apr 1998), 2A993
Stability criteria for tractor-implement operation on slopes, J Terramech **35**(1) 1-19 (Jan 1998), 2A994
Tractor operator workplace design: A review, J Terramech **35**(1) 41-53 (Jan 1998), 2A1564
Proceedings of the 15th IAVSD Symposium held in Budapest, Hungary, August 25-29, 1997, Vehicle Syst Dyn **29**(S) 5-788 (1998), 3A419
High resolution soil vehicle interaction modeling, Mech Struct Machines **26**(3) 305-318 (1998), 3A672
Computational vibration analysis of vehicle shimmy by a power-work method, Vehicle Syst Dyn **29**(6) 341-364 (Jun 1998), 4A187
Effect of system nonlinearities on locomotive bogie hunting stability, Vehicle Syst Dyn **29**(6) 365-384 (Jun 1998), 4A189
Front-rear interaction of a pitch-plane truck model, Vehicle Syst Dyn **30**(2) 117-141 (Aug 1998), 4A190
Identification of lateral dynamics and parameter estimation of heavy vehicles, Mech Syst Signal Processing **12**(5) 611-626 (Sep 1998), 4A355
Fatigue life prediction of a railway bogie under dynamic loads through simulation, Vehicle Syst Dyn **29**(6) 385-402 (Jun 1998), 4A429
Application of genetic algorithms to the design optimization of an active vehicle suspension system, Comput Methods Appl Mech Eng **163**(1-4) 87-94 (Sep 1998), 4A868
Finite element implementation of the microplane theory for simulating a rigid concrete pavement-vehicle interaction, Mech Struct Machines **26**(4) 377-400 (1998), 5A22
Computer simulation of rail vehicle dynamics, Vehicle Syst Dyn **30**(3-4) 197-313 (Sep 1998), 5A159
Analysis of static temperature field of vehicle's solid rubber tire, J Beijing IT **7**(2) 135-140 (Jun 1998), 5A808
Crashworthiness of Composite Thin-Walled Structural Components (Technomic, Lancaster PA, 1998) 6R3
Verification of a wheeled mobile robot dynamic model and control ramifications, J Dyn Syst Meas Control **121**(1) 58-63 (Mar 1999), 6A410
Design and traction performance of the movable lug wheel, J Terramech **35**(3) 159-177 (Jul 1998), 6A1062
Effect of velocity on rigid wheel performance, J Terramech **35**(3) 189-207 (Jul 1998), 6A1063
Additional vehicle's wheel rotation during crossing road unevenness, Heavy Vehicle Syst **5**(3-4) 323-340 (1998), 7T181
Assessment of the ride quality of a truckfull trailer combination, Heavy Vehicle Syst **5**(3-4) 208-235 (1998), 7A182
Dynamic rollover threshold of articulated freight vehicles, Heavy Vehicle Syst **5**(3-4) 300-322 (1998), 7A184
Dynamics of a wheelset on roller rig, Vehicle Syst Dyn **30**(6) 409-430 (Dec 1998), 7A185
Investigation of the dynamic performance of the M939 truck-M198 medium towed howitzer combination, Heavy Vehicle Syst **5**(3-4) 341-358 (1998), 7T186
Nonlinear yaw-roll-pitch model of the dynamics of log hauling trucks, Heavy Vehicle Syst **5**(3-4) 181-207 (1998), 7A187
Rotational resistance behavior and field testing of two-axle bogie design, Vehicle Syst Dyn **31**(1) 47-63 (Jan 1999), 7A189
Simulation of bending-torsional-lateral vibrations of the railway wheelset-track system in the medium frequency range, Vehicle Syst Dyn **30**(6) 473-508 (Dec 1998), 7A190
Truck cab suspension design: Optimization and vibration control, Heavy Vehicle Syst **5**(3-4) 236-260 (1998), 7A192
Active control of a truck full-trailer's rearward amplification, Heavy Vehicle Syst **5**(3-4) 277-299 (1998), 7A374
Automatic control system of a rear-wheel drive vehicle moving on a sloped weak sandy terrain, J Terramech **35**(4) 239-263 (Oct 1998), 7A869
Development of an all terrain vehicle suspension with an efficient, oval track, J Terramech **35**(4) 209-223 (Oct 1998), 7A870
Effects of a roller and a tracked vehicle on the compaction of a high lified decomposed granite sandy soil, J Terramech **35**(4) 265-293 (Oct 1998), 7A871

Electro-hydraulic tillage depth control system for rotary implements mounted on agricultural tractor design and response experiments of control system, J Terramech **35**(4) 229-238 (Oct 1998), 7A872
Estimation of the nonlinear suspension tire cornering forces from experimental road test data, Vehicle Syst Dyn **31**(1) 23-34 (Jan 1999), 7A873
Impact loads due to wheel flats and shells, Vehicle Syst Dyn **31**(1) 1-22 (Jan 1999), 7A874
Multi-spoke, three plane tire model for simulation of transient behavior, Vehicle Syst Dyn **31**(1) 35-45 (Jan 1999), 7A875
Prediction of the performance of off-road tires, Heavy Vehicle Syst **5**(3-4) 359-378 (1998), 7A876
Weight reduction in automotive structures: An experimental study on torsional stiffness of box sections, Proc Inst Mech Eng D **213**(D1) 59-71 (1999), 9A1014
Numerical simulation of a 4WD-4WS tractor turning in a rice field, J Terramech **36**(2) 91-115 (Apr 1999), 10A1015
Off-road tire modeling - I: The multi-spoke tire model modified to include the effect of straight lugs, J Terramech **36**(1) 3-24 (Jan 1999), 10A1016
Off-road tire modeling - II: Effect of camber on tire performance, J Terramech **36**(1) 25-38 (Jan 1999), 10A1017
Off-road tire modeling - III: Effect of angled lugs on tire performance, J Terramech **36**(2) 63-75 (Apr 1999), 10A1018
Off-road tire modeling - IV: Extended treatment of tire-terrain interaction or the multi-spoke model, J Terramech **36**(2) 77-90 (Apr 1999), 10A1019
Semi-active rotary damper for a heavy off-road wheeled vehicle, J Terramech **36**(1) 51-60 (Jan 1999), 10A1020
Special issue International Journal of Vehicle Design, Int J Vehicle Des **21**(1) 1-121 (1999), 11A436
Experimental analysis of a hybrid bicycle frame, Exp Tech **23**(3) 21-24 (May-Jun 1999), 11A957
Dynamic effects of conventional freight car running over a dipped-joint, Vehicle Syst Dyn **31**(2) 95-111 (Feb 1999), 12A168
General method for the evaluation of vehicle maneuverability with special emphasis on motorcycles, Vehicle Syst Dyn **31**(2) 113-135 (Feb 1999), 12A427
Development of a tracked vehicle to study the influence of vehicle parameters on tractive performance in soft terrain, J Terramech **36**(3) 167-181 (Jul 1999), 12A948
Evaluation of the concept of rolling resistance, J Terramech **36**(3) 159-166 (Jul 1999), 12A949
Modeling and simulation of an agricultural tracked vehicle, J Terramech **36**(3) 139-158 (Jul 1999), 12A950
Pragmatic tire model for short wavelength side slip variations, Vehicle Syst Dyn **31**(2) 65-94 (Feb 1999), 12A951
Rumbling in high speed passenger trains, Eng Trans **46**(3-4) 315-331 (1998), 12A952

288C. Ships, submarines

Development of an aluminum hull panel for high-speed craft, Marine Struct **11**(1-2) 47-71 (Jan-Feb 1998), 1A19
Automated optimization of transverse frame layouts for ships by elastic-plastic FE analysis, Struct Optim **15**(3-4) 187-200 (Jun 1998), 1A942
Application of second-order second-moment method to ship structural reliability analysis (Chinese), J Dalian Univ Tech **38**(4) 493-494 (Jul 1998), 1A975
Preprocessing for ship structural reliability computation (Chinese), J Dalian Univ Tech **38**(4) 432-437 (Jul 1998), 1A979
Assessment and prediction of residual longitudinal strength for operating ship (Chinese), J Dalian Univ Tech **38**(4) 414-418 (Jul 1998), 1A1013
Research on new design method for mathematical ship lines (Chinese), J Dalian Univ Tech **38**(4) 382-386 (Jul 1998), 1A1014
Study of the nonlinear responses of a submersible pressure hull, Int J Pressure Vessels Piping **75**(2) 131-149 (Feb 1998), 1A1020
Form transformation based on transverse section area curve with transforming function (Chinese), J Dalian Univ Tech **38**(4) 387-391 (Jul 1998), 1A1048
Smart marine structures: An approach to the monitoring of ship structures with fiber-optic sensors, Smart Mat Struct 7(4) 472-478 (Aug 1998), 2A945
Hydrodynamic moments due to water on ship deck, Comput Assisted Mech Eng Sci **5**(2) 129-137 (1998), 2A995
Design of automatic thruster assisted position mooring systems for ships, Model Ident Control **19**(2) 61-75 (Apr 1998), 3A410
Study of diving depth on deep-diving submersible vehicle, Int J Pressure Vessels Piping **75**(6) 447-457 (May 1998), 3A924
Estimating main dimensions and coefficients in preliminary ship design, Ship Tech Res **45**(3) 96-98 (Jul 1998), 3A1174
Symmetric form of the DNL absorbing boundary condition for the ship wave resistance problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 317-338 (1998), 4A1063
Surface ship shock modeling and simulation: 2D analysis, Shock Vib **5**(2) 129-137 (1998), 5A211
Reliability of maintained ship hull girders subjected to corrosion and fatigue, Struct Safety **20**(3) 201-219 (1998), 5A674
Comparison between prescriptive and performance-based criteria for assessing Ro-Ro damage survivability, Int Shipbuild Prog **45**(444) 351-382 (Dec 1998), 5A1105
Finite element comparative study of ship structural detail, Marine Struct **11**(4-5) 127-139 (May-Jun 1998), 6A1064
Idealization of ships with large hatch openings by a thin-walled rod of open section on many elastic supports, Thin-Walled Struct **32**(4) 305-325 (Dec 1998), 6A1065
Nonlinear wave loads and ship responses by a time-domain strip theory, Marine Struct **11**(3) 101-123 (Apr 1998), 6A1066
Surface fairing for ship hull design application, Math Eng Industry 7(2) 179-193 (1999), 7A78
Probabilistic risk assessment strategies for fighting ship structures (Chinese), J Shanghai Jiaotong Univ **32**(11) 105-109 (Nov 1998), 7A839
Development of optimization investigation in ship structural design (Chinese), J Shanghai Jiaotong Univ **32**(11) 118-120 (Nov 1998), 7A877
Probabilistic load combinations and their applications in ship engineering (Chinese), J Shanghai Jiaotong Univ **32**(11) 121-125 (Nov 1998), 7A878
Ship longitudinal residual strength assessment based on redundancy (Chinese), J Shanghai Jiaotong Univ **32**(11) 34-37 (Nov 1998), 7A879
Reliability-based optimal design of submarine cylindrical pressure hull (Chinese), J Shanghai Jiaotong Univ **32**(11) 90-92 (Nov 1998), 7A923
Ultimate strength estimation of ships' transverse frames by incremental elastic-plastic FE analysis, Marine Struct **11**(7-8) 291-317 (Aug-Sep 1998), 8A24
Spectral fatigue damage calculation in the side shells of ships, with due account taken of the effect of alternating wet and dry areas, Marine Struct **11**(7-8) 319-343 (Aug-Sep 1998), 8A748
Second-level reliability analysis of a double-hull oil tanker, Marine Struct **11**(9) 373-399 (Nov 1998), 9A1015
Fatigue of cracked ship critical structural details: Cracked S-N curves and load shedding, Int J Offshore Polar Eng **8**(2) 130-139 (Jun 1998), 10A844
Impact mechanics in ship collisions, Marine Struct **11**(10) 429-449 (Dec 1998), 10A950
Structural design of process decks for floating production, storage, and offloading units, Marine Struct **11**(10) 403-412 (Dec 1998), 10A1014
Ultimate longitudinal strength of ship hull girder: historical review and state of the art, Int J Offshore Polar Eng **9**(1) 1-9 (Mar 1999), 10A1021
Ship Collision Analysis (Balkema, Rotterdam, Netherlands, 1998) 11N22
Damage mechanics of top-hat stiffeners used in FRP ship construction, Marine Struct **12**(1) 1-19 (Jan 1999), 11A525
Method for reliability-based sensitivity analysis of ship's hull structures using combined plate and frame structure models, J Offshore Mech Arctic Eng **121**(3) 159-165 (Aug 1999), 11A883
Multibody systems and fluid-structure interactions with application to floating structures, Multibody Syst Dyn **3**(1) 65-83 (Feb 1999), 11A958
Experimental determination of the hydrodynamic coefficients of an underwater manipulator, J Robotic Syst **16**(6) 329-338 (Jun 1999), 11A1287
Graph-model of steel distribution on the ship's hull, Marine Tech Trans **9** 89-107 (1998), 12A554
Optimization of the fast craft deck structure by the genetic algorithms, Marine Tech Trans **9** 165-188 (1998), 12A953

288E. Airplanes

Optimum jack loads for static and fatigue tests, J Aircraft **35**(4) 598-603 (Jul-Aug 1998), 1A1015
Recent Advances in Mechanics of Aerospace Structures and Materials - 1998 (ASME, New York, 1998) 6N26
Autonomous maneuver tracking for self-piloted vehicles, J Guidance Control Dyn **22**(1) 58-67 (Jan-Feb 1999), 7A364
Design-oriented analysis of aircraft fuselage structures using equivalent plate methodology, J Aircraft **36**(1) 21-28 (Jan-Feb 1999), 7A880
Adhesively bonded repairs to primary aircraft structure, Int J Adhesion Adhesives **19**(1) 1-8 (Feb 1999), 8A613
Scaling crucial to integrated product development of composite aerospace structures - Part 1, Composites Part A Appl Sci and Manuf **30A**(3) 385-393 (1999), 8A614
Aeroelastic tailoring using piezoelectric actuation and hybrid optimization, Smart Mat Struct **8**(1) 83-91 (Feb 1999), 8A846
Minimum cost and weight design of fuselage frames - Part A: Design constraints and manufacturing process characteristics, Composites Part A Appl Sci and Manuf **30A**(7) 887-894 (1999), 11A445
Minimum cost and weight design of fuselage frames - Part B: Cost considerations, optimization, and results, Composites Part A Appl Sci and Manuf **30A**(7) 895-904 (1999), 11A453
Probabilities of occurrence and detection of damage in airframe materials, Fatigue Fracture Eng Mat Struct **22**(5) 427-436 (1999), 12A804
Special issue: Aircraft repairs, Int J Adhesion Adhesives **19**(2-3) 91-242 (Apr-Jun 1999), 12T1022

288F. Helicopters

Optimized aeroelastic couplings for alleviation of helicopter ground resonance, J Aircraft **35**(4) 582-590 (Jul-Aug 1998), 1A1266
Simulation of helicopter rotor-system structural damage, blade mistracking, friction, and freeplay, J Aircraft **35**(4) 591-597 (Jul-Aug 1998), 1A1267
Eigenstructure assignment technique for damage detection in rotating structures, AIAA J **36**(9) 1680-1685 (Sep 1998), 2A466
Minimal state-space model realization of a nonlinear helicopter, IEE Proc Control Theory Appl **145**(4) 415-422 (Jul 1998), 3A415
Comparison of calculated vibratory rotor hub loads with experimental data, J Am Helicopter Soc **43**(4) 312-318 (Oct 1998), 4A195
Validation of a comprehensive aeroelastic analysis for tiltrotor aircraft, J Am Helicopter Soc **43**(4) 333-341 (Oct 1998), 4A920
Damage identification of chordwise crack size and location in uncoupled composite rotorcraft flexbeams, J Intelligent Mat Syst Struct **9**(2) 146-155 (Feb 1998), 6A921
Recent applications of design optimization to rotorcraft: A study, J Aircraft **36**(1) 176-189 (Jan-Feb 1999), 7A881
Comprehensive comparisons of rotormap and blade element method, J Am Helicopter Soc **44**(1) 42-49 (Jan 1999), 7A1140
Aeromechanic aspects in the design of the EC135, J Am Helicopter Soc **44**(2) 83-93 (Apr 1999), 10A1022
Performance measurement and wake characteristics of a model rotor in axial flight, J Am Helicopter Soc **44**(2) 101-108 (Apr 1999), 10A1262
Finite element method submodeling fatigue analysis of a complex helicopter component, Int J Fatigue **21**(5) 445-455 (May 1999), 11A32
Identifying helicopter control gains using desired output histories, J Guidance Control Dyn **22**(3) 492-494 (May-Jun 1999), 11T390
Dynamics of systems that include wings in autorotation, J Dyn Syst Meas Control **121**(2) 248-254 (Jun 1999), 12A170

288G. Lighter than air devices

Airship Technology (Cambridge UP, UK, 1999) 7N16

288I. Space vehicles and satellites

Motion control of adaptive space structures based on artificial potential method, J Spacecraft Rockets **35**(4) 496-501 (Jul-Aug 1998), 2A942
Practical procedures for reliability estimation of spacecraft structures and their components, AIAA J **36**(8) 1509-1515 (Aug 1998), 2A950
Elastoplastic analysis of space trusses considering the effects of large displacements and softening, Mech Struct Machines **26**(4) 423-441 (1998), 5T809
Probability of structural failure of a satellite launching motor: Case study, J Spacecraft Rockets **36**(1) 100-104 (Jan-Feb 1999), 7A828

288J. Deployable structures

Comparative analysis of deployable truss structures for mesh antenna reflectors, AIAA J **36**(8) 1546-1548 (Aug 1998), 2T996
Roofing geometry of deployable X-Frames, Int J Space Struct **13**(1) 1-12 (1998), 3A925
Shape control and kinematic waves in large statically determinate structures in space, Int J Space Struct **13**(1) 13-22 (1998), 3A926
Appraisal of deployable dome structures under wind loading, Wind Struct **1**(4) 317-336 (Dec 1998), 8A881
Experimental development of self-deployable structures, Int J Space Struct **13**(3) 157-169 (1998), 8A882
Sparse plate-trusses, Int J Space Struct **13**(3) 113-125 (1998), 8A883

290. STRUCTURES (CONTAINMENT)

290B. Pressure vessels (reactor vessels, etc)

Methodology for predicting the occurrence of failure events for pressure vessels used in the process industry, Int J Pressure Vessels Piping **75**(3) 221-228 (Mar 1998), 1A859
Design of pressure vessels taking plastic reserve into account, Int J Pressure Vessels Piping **75**(4) 331-341 (Apr 1998), 1A1016
Design philosophy of flat ribbon wound layered pressure vessel, Int J Pressure Vessels Piping **75**(1) 57-61 (Jan 1998), 1A1017
Numerical analysis of cylinders containing circular offset cross-bores, Int J Pressure Vessels Piping **75**(3) 191-196 (Mar 1998), 1A1018
Parametric equations for maximum stresses in cylindrical vessels subjected to thermal expansion loading, Int J Pressure Vessels Piping **75**(3) 255-262 (Mar 1998), 1A1019
Cracks emanating from an erosion in a pressurized autofrettaged thick-walled cylinder - Part I: Semi-circular and arc erosions, J Pressure Vessel Tech **120**(4) 349-353 (Nov 1998), 2A860
Cracks emanating from an erosion in a pressurized autofrettaged thick-walled cylinder - Part II: Erosion depth and ellipticity effects, J Pressure Vessel Tech **120**(4) 354-358 (Nov 1998), 2A861
General lessons learnt from round robin tests and qualifications tests relating to NDE, Int J Pressure Vessels Piping **75**(5) 417-427 (Apr 1998), 2T914
Effects of flaw sizing errors on the reliability of vessels and piping, J Pressure Vessel Tech **120**(4) 365-373 (Nov 1998), 2A949
Analysis of the Type IV creep failures of three welded ferritic pressure vessels, Int J Pressure Vessels Piping **75**(6) 509-519 (May 1998), 3A766
Estimating the plastic collapse of pressure vessels using plasticity contours, Int J Pressure Vessels Piping **75**(7) 529-536 (Jun 1998), 3A927
Alternative way to support horizontal pressure vessels subject to thermal loading, Int J Pressure Vessels Piping **75**(8) 617-623 (Jul 1998), 4A921
High Pressure Vessels (Chapman and Hall, New York, 1998) 5R15
Applications of iterative elastic techniques for elastic-plastic analysis of pressure vessels, J Pressure Vessel Tech **121**(1) 24-29 (Feb 1999), 5A488
Fatigue strength and crack propagation life of in-service high pressure tubular reactor under residual stress, Int J Pressure Vessels Piping **75**(12) 871-877 (Oct 1998), 5A649
Elastoplastic fracture properties of an all-aluminium gas cylinder with different cracks, Int J Pressure Vessels Piping **75**(12) 879-886 (Oct 1998), 5A706
Experimental study of the collapse of horizontal saddle-supported storage vessels, Proc Inst Mech Eng E **212**(E3) 183-195 (1998), 5A810
International Thermonuclear Experimental Reactor port limiter design, Fusion Eng Des **43**(1) 75-92 (Oct 1998), 5A1097
Analysis of thermal stresses in a boiler drum during start-up, J Pressure Vessel Tech **121**(1) 84-93 (Feb 1999), 5A1327
Effect of composite wrapping on the fracture behavior of the steel-lined hoop-wrapped cylinders, Int J Pressure Vessels Piping **75**(13) 931-937 (Nov 1998), 6A945
Low temperature mixed mode fracture of a pressure vessel steel subject to prior loading, Eng Fracture Mech **61**(3-4) 387-405 (Sep-Nov 1998), 6A1407
Numerical simulation of the integral hydro-bulge forming of non-clearance double-layer spherical vessels: Deformation analysis, Comput Struct **70**(2) 243-256 (Jan 1999), 7A669
Stress intensity factors for circumferential cracks in pressure vessel door closures, Int J Pressure Vessels Piping **76**(1) 1-12 (Jan 1999), 7A734
Deterministic assessment of reactor pressure vessel integrity under pressurized thermal shock, Int J Pressure Vessels Piping **75**(15) 1055-1064 (Dec 1998), 7A1584
Survey of national regulatory requirements relevant to PWR pressure vessels, Int J Pressure Vessels Piping **75**(14) 979-1036 (Dec 1998), 7A1586
Radial vibrations of axisymmetrically loaded stepped pressure vessels, Appl Math Mech **20**(1) 105-109 (Jan 1999), 9A169
Neural network applied to prediction of the failure stress for a pressurized cylinder containing defects, Int J Pressure Vessels Piping **76**(4) 215-219 (Apr 1999), 9A484
Direct simulation of fatigue crack growth for arbitrary-shaped defects in pressure vessels, Proc Inst Mech Eng C **213**(C2) 175-189 (1999), 9A799
Stress intensity factor of an arbitrarily located circumferential crack in a thin-walled cylinder with axisymmetrically loaded ends, Eng Fracture Mech **62**(4-5) 371-382 (Mar 1999), 9A862

Fracture behaviors of all-steel gas cylinder with different axial cracks, Int J Pressure Vessels Piping **76**(4) 245-250 (Apr 1999), 9A872

Effect of gap between pad and vessel for moment loading on nozzle, J Pressure Vessel Tech **121**(2) 225-231 (May 1999), 9A1016

Optimal strength design of the wound pressure vessel considering nonhomogeneous temperature field, Int J Pressure Vessels Piping **76**(3) 157-162 (Mar 1999), 9A1017

Thermomechanical fracture on a pressurized cylindrical vessel induced by a localized energy source, J Pressure Vessel Tech **121**(2) 160-169 (May 1999), 9A1427

Comparison of Western and Eastern nuclear reactor pressure vessel steels, Int J Pressure Vessels Piping **76**(3) 163-208 (Mar 1999), 9A1521

Numerical modeling of thermal destruction of cylindrical shells with internal pre-pressure under laser irradiation, Comput Struct **71**(4) 359-370 (May 1999), 10A1023

Orthotropic pressure vessels subject to local loads, Int J Pressure Vessels Piping **76**(6) 387-392 (May 1999), 10A1024

Fatigue crack growth testing of sub-clad defects, J Pressure Vessel Tech **121**(3) 269-275 (Aug 1999), 11A734

Horizontal vessels on fixed supports used for storing high-temperature liquid: An experimental validation of FE modeling, J Strain Anal Eng Des **34**(2) 83-96 (Mar 1999), 11A959

Prediction of failure behavior of a welded pressure vessel containing flaws during a hydrogen-charged burst test, J Pressure Vessel Tech **121**(3) 246-251 (Aug 1999), 11A960

Investigation of cladding effects on shallow-flaw fracture toughness of reactor pressure vessel steel under prototypic biaxial loading, J Pressure Vessel Tech **121**(3) 257-268 (Aug 1999), 11A1615

Finite elements in the analysis of pressure vessels and piping: An addendum (1996-1998), Int J Pressure Vessels Piping **76**(7) 461-485 (Jun 1999), 12A27

Stability problems of pressure vessel ellipsoidal heads, Arch Budowy Maszyn **46**(1) 43-55 (1999), 12A677

Effect of characteristic crack sizes on the leak-before-break case of pressure vessels and piping with multiple cracks, Int J Pressure Vessels Piping **76**(7) 435-439 (Jun 1999), 12A845

Orthotropic cylindrical pressure vessels under line load, Int J Pressure Vessels Piping **76**(7) 455-459 (Jun 1999), 12A954

Component exposure in hypothetical accidents with very fast depressurization in a HTR module reactor, Nucl Eng Des **190**(3) 297-302 (Jun 1999), 12A1567

22nd MPA-Seminar Stuttgart, Germany October 10-11, 1996, Nucl Eng Des **190**(1-2) 3-249 (Jun 1999), 12T1569

290C. Boilers

Development of creep damage diagnosis system for the high temperature steam pipes of the boiler in thermal power plants (Japanese), J Soc Mat Sci Japan **48**(1) 70-76 (Jan 1999), 8A758

290D. Heat exchangers

Finite element study of keyed backing ring design for floating head, Int J Pressure Vessels Piping **75**(6) 521-526 (May 1998), 3A26

290F. Wirewound vessels

Review of development in layered vessels using flat-ribbon-wound cylindrical shells, Int J Pressure Vessels Piping **75**(9) 653-659 (Aug 1998), 4A922

Fracture analysis on the metal-lined hoop-wrapped cylinders with internal axial cracks, Int J Pressure Vessels Piping **75**(15) 1047-1053 (Dec 1998), 7A768

Bursting problem of filament wound composite pressure vessels, Int J Pressure Vessels Piping **76**(1) 55-59 (Jan 1999), 7A882

Fracture behavior of the aluminum lined hoop-wrapped cylinders with internal axial cracks, Int J Pressure Vessels Piping **76**(4) 251-257 (Apr 1999), 9A926

Residual stresses reduction in filament wound composite tubes, J Reinforced Plastics Composites **18**(8) 684-701 (1999), 12A624

Influence of winding patterns on the damage behavior of filament-wound pipes, Composites Sci Tech **59**(9) 1439-1449 (Jul 1999), 12A831

290G. Reinforced concrete vessels

Effect of soil-structure interaction on the reliability of hyperbolic cooling towers, Struct Eng and Mech **7**(2) 217-224 (Feb 1999), 6A1489

290H. Vessels under external pressure

Study of the nonlinear responses of a submersible pressure hull, Int J Pressure Vessels Piping **75**(2) 131-149 (Feb 1998), 1A1020

Study of diving depth on deep-diving submersible vehicle, Int J Pressure Vessels Piping **75**(6) 447-457 (May 1998), 3A924

Polyhedrally stiffened shells for undersea pressure hulls, Int J Offshore Polar Eng **8**(3) 207-212 (Sep 1998), 10A697

290I. Piping

Numerical analysis of limit load and reference stress of defective pipelines under multi-loading systems, Int J Pressure Vessels Piping **75**(2) 105-114 (Feb 1998), 1A593

Probabilistic estimation of remaining life of a pipeline in the presence of active corrosion defects, Int J Pressure Vessels Piping **75**(4) 321-329 (Apr 1998), 1A860

Probabilistic models for condition assessment of oil and gas pipelines, NDT&E Int **31**(5) 349-358 (Oct 1998), 1A863

Analysis of above-ground pipelines on unilateral supports: A neural network approach, Int J Pressure Vessels Piping **75**(1) 43-48 (Jan 1998), 1A1021

Effect of multiple cracks on the leak-before-break case of pipe, Int J Pressure Vessels Piping **75**(3) 249-254 (Mar 1998), 1A1022

Factors influencing the crack-system compliance of a piping system, Int J Pressure Vessels Piping **75**(2) 125-129 (Feb 1998), 1A1023

Leakage via a through-wall circumferential crack in a piping or tubing system under accident loading conditions, Int J Pressure Vessels Piping **75**(2) 121-124 (Feb 1998), 1A1024

Structural integrity assessment for a flawed titanium pipe, Int J Pressure Vessels Piping **75**(2) 151-154 (Feb 1998), 1A1025

Use of the reference stress method in estimating the life of pipe bends under creep conditions, Int J Pressure Vessels Piping **75**(2) 161-169 (Feb 1998), 1A1026

Tensile and fracture properties evaluation of PHT system piping material of PHWR, Int J Pressure Vessels Piping **75**(4) 271-280 (Apr 1998), 1A1470

J-estimation schemes for internal circumferential and axial surface cracks in pipe elbows, J Pressure Vessel Tech **120**(4) 418-423 (Nov 1998), 2A866

J-R curves from circumferentially through-wall-cracked pipe tests subjected to combined bending and tension - Part I: Theory and numerical simulation, J Pressure Vessel Tech **120**(4) 406-411 (Nov 1998), 2A867

J-R curves from circumferentially through-wall-cracked pipe tests subjected to combined bending and tension - Part II: Experimental and analytical validation, J Pressure Vessel Tech **120**(4) 412-417 (Nov 1998), 2A868

Crack-opening-area analyses for circumferential through-wall cracks in pipes - Part I: Analytical models, Int J Pressure Vessels Piping **75**(5) 357-373 (Apr 1998), 2A997

Crack-opening-area analyses for circumferentially through-wall cracks in pipes - Part II: Model validations, Int J Pressure Vessels Piping **75**(5) 375-396 (Apr 1998), 2A998

Crack-opening-area analyses for circumferential through-wall cracks in pipes - Part III: Off-center cracks, restraint of bending, thickness transition and weld residual stresses, Int J Pressure Vessels Piping **75**(5) 397-415 (Apr 1998), 2A999

Experimental data on seismic response of piping components, J Pressure Vessel Tech **120**(4) 449-455 (Nov 1998), 2A1470

Pipe segment failure dependency analysis and system failure probability estimation, Int J Pressure Vessels Piping **75**(6) 483-488 (May 1998), 3A772

Applications of asymptotic reliability functions to the reliability and risk evaluation of pipelines, Int J Pressure Vessels Piping **75**(7) 545-558 (Jun 1998), 3A891

Nonlinear analysis and plastic deformation of pipe elbows subjected to in-plane bending, Int J Pressure Vessels Piping **75**(8) 603-611 (Jul 1998), 4A548

Improved ratcheting analysis of piping components, Int J Pressure Vessels Piping **75**(8) 643-652 (Jul 1998), 4A566

Lower bound limit load of a circumferentially cracked pipe under combined mechanical loading, Nucl Eng Des **185**(1) 23-31 (Sep 1998), 4A810

Net-section-collapse analysis of circumferentially cracked cylinders - Part I: Arbitrary-shaped cracks and generalized equations, Eng Fracture Mech **61**(2) 191-211 (Sep 1998), 5A710

Net-section-collapse analysis of circumferentially cracked cylinders - Part II: Idealized cracks and closed-form solutions, Eng Fracture Mech **61**(2) 213-230 (Sep 1998), 5A711

Vibration-induced fatigue failure of an impulse line, Eng Failure Anal **5**(3) 195-204 (Sep 1998), 5A713

Analysis for wrinkling behavior of girth-welded line pipe, J Offshore Mech Arctic Eng **121**(1) 53-61 (Feb 1999), 5A811

Failure of a flexible pipe with a concrete liner, Eng Failure Anal **5**(3) 247-259 (Sep 1998), 5A812

Limit loads for pipe elbows subjected to in-plane opening moments and internal pressure, J Pressure Vessel Tech **121**(1) 17-23 (Feb 1999), 5A813

Linearization techniques for seismic analysis of piping system on friction support, J Pressure Vessel Tech **121**(1) 103-108 (Feb 1999), 5A1483

Seismic hazard and damages: Avoiding disaster through simulation, experiment, and experience, J Pressure Vessel Tech **121**(1) 30-36 (Feb 1999), 5A1485

Integrity of bonded joints in large composite pipes, Int J Adhesion Adhesives **18**(6) 421-429 (Dec 1998), 6A933

Lifetime failure assessment of transmission pipelines (Japanese), J Soc Mat Sci Japan **48**(1) 83-88 (Jan 1999), 8A856

Effect of crack location and maximum stress position on the failure of a cracked piping system, Nucl Eng Des **187**(2) 165-173 (Feb 1999), 9A923

Effective stress factor correlation equations for piping branch junctions under internal pressure loading, J Pressure Vessel Tech **121**(2) 121-126 (May 1999), 9A1018

Leak-before-break qualification of primary heat transport piping of 500 MWe Tarapur Atomic Power Plant, Int J Pressure Vessels Piping **76**(4) 221-243 (Apr 1999), 9A1518

Allowable sizes of axial flaws in pressurized pipes made of moderate toughness materials, Int J Pressure Vessels Piping **76**(6) 371-377 (May 1999), 10A893

Simplified analyses of a fiber-reinforced plastic joint for filament-wound pipes, J Pressure Vessel Tech **121**(3) 327-333 (Aug 1999), 11A548

Influence of the design parameters on the stress state of saddle-supported pipelines: An artificial neural network approach, Int J Pressure Vessels Piping **76**(7) 401-409 (Jun 1999), 12A955

290J. Pressurized components

Assessment of operability and structural integrity of a vertical pump for extreme loads, Int J Pressure Vessels Piping **75**(4) 297-306 (Apr 1998), 1A1466

Dome reversal of metal beverage containers, J Pressure Vessel Tech **120**(4) 456-461 (Nov 1998), 2A724

Localized autofrettage as a design tool for the fatigue improvement of cross-bored cylinders, J Pressure Vessel Tech **120**(4) 393-397 (Nov 1998), 2A840

Metal-to-metal full face taper-hub flanges: FEM evaluation and preliminary plastic analytical results, Proc Inst Mech Eng E **212**(E2) 57-69 (1998), 2A1000

Autofrettage of thick cylinders, Int J Pressure Vessels Piping **75**(6) 443-446 (May 1998), 3A511

Investigation on bursting pressure of flat steel ribbon wound pressure vessels, Int J Pressure Vessels Piping **75**(7) 581-587 (Jun 1998), 3A928

Fracture toughness assessment of in-service aged primary circuit elbows using mini-CT specimens taken from outer skin, Nucl Eng Des **184**(1) 3-11 (Aug 1998), 3A1494

Stress intensity factors for internal circumferential cracks in thin- and thick-walled cylinders, Eng Fracture Mech **60**(5-6) 491-500 (Jul 1998), 4A829

Effect of changes in the taper-hub shape on the strength of high-pressure flanges, Proc Inst Mech Eng E **212**(E3) 151-162 (1998), 5A814

Limit analysis based on elastic compensation method of branch pipe tee connection under internal pressure and out-of-plane moment loading, Int J Pressure Vessels Piping **75**(11) 819-825 (Sep 1998), 5A815

Effect of the elliptic degree of Ω-shaped bellows toroid on its stresses, Int J Pressure Vessels Piping **75**(13) 951-954 (Nov 1998), 6A662

Elastic fracture properties of all-steel gas cylinders with different crack types, Int J Pressure Vessels Piping **76**(1) 23-33 (Jan 1999), 7A728

Alleviation of quenching residual stresses by cold working the necks of seamless 6351 aluminium alloy thick-walled gas cylinders, Int J Pressure Vessels Piping **75**(14) 971-977 (Dec 1998), 7A883

Analytical solutions of openings formed by intersection of a cylindrical shell and an oblique nozzle under internal pressure, J Pressure Vessel Tech **121**(2) 170-175 (May 1999), 9A703

Effect of shear deformation and relaxation of support conditions on elastic buckling of pressurized expansion bellows, J Pressure Vessel Tech **121**(2) 127-132 (May 1999), 9A712

Three-dimensional analysis of a semi-elliptical crack emanating from an erosion at the bore of an autofrettaged pressurized cylinder, J Pressure Vessel Tech **121**(2) 209-215 (May 1999), 9A933

Elastic-plastic failure analysis of pressure burst tests of thin toroidal shells, J Pressure Vessel Tech **121**(2) 149-153 (May 1999), 9A1019

Shakedown analysis of nozzles using elasto-plastic FEA, Int J Pressure Vessels Piping **76**(7) 421-434 (Jun 1999), 12A28

290K. Containers (tanks, silos, bins, bunkers, etc)

Shear zones and dynamic effect during silo emptying - Part 2, Arch Civil Eng **43**(4) 383-414 (1997), 1A1027

Shear zones and dynamic effects during silo emptying: Part 1, Arch Civil Eng **43**(4) 353-382 (1997), 1A1028

Diminishing of dynamic effects during evacuation of siloses (Polish), Inzynieria Budownictwo **54**(6) 334-335 (1998), 2A1001

Development of structural forms for bulk material storage, Int J Space Struct **13**(2) 83-86 (1998), 7A884

History of space structures in TOMOE Corporation, Int J Space Struct **13**(2) 97-104 (1998), 7T885

Statical analysis of cylindrical RC silo bins with temperature effects (Polish), Inzynieria Budownictwo **55**(4) 203-208 (1999), 11A961

Numerical modeling of rapid flow of granular material in a hopper, Arch Civil Eng **44**(4) 443-473 (1998), 12A956

292. FRICTION AND WEAR

292A. General theory

Materiaux et Contacts: Une approche tribologique (French) (Presses Polytech et Univ Romandes, Lausanne, 1998) 1R9

Tribology Issues and Opportunities in MEMS (Kluwer, Netherlands, 1998) 2N17

Three-dimensional model for a multilayered body loaded normally and tangentially against a rigid body: Application to specific coatings, J Trib **120**(4) 668-676 (Oct 1998), 2A810

Instability and ill-posedness in some friction problems, Int J Eng Sci **36**(11) 1265-1293 (Sep 1998), 2A1002

Model of dynamic system in process of friction contact monitoring (Polish), Trib **29**(1) 51-67 (1998), 2A1003

Adhesive contact of flat-ended wedges: Theory and computer experiments, J Trib **121**(1) 128-132 (Jan 1999), 4A923

Dependence of the coefficient of friction on the sliding conditions in the high velocity range, J Trib **121**(1) 35-41 (Jan 1999), 4A925

New approach to calculation of contact characteristics, J Trib **121**(1) 20-27 (Jan 1999), 4A946

Fractal evaluation of pavement skid resistance variations - I: Surface wetting, Chaos Solitons Fractals **9**(11) 1875-1890 (Nov 1998), 5A816

Continuum model of kinetic roughening and coarsening in thin films, J Mech Phys Solids **47**(4) 697-730 (Apr 1999), 8A9

Equation of anisotropic friction with sliding path curvature effects, Int J Solids Struct **36**(19) 2825-2848 (Jul 1999), 8A884

Model of dry friction in the problem of the rolling of rigid bodies, J Appl Math Mech **62**(5) 705-710 (1998), 8A885

Similarity and fractality in the modeling of roughness by a multilevel profile with hierarchical structure, Int J Solids Struct **36**(17) 2585-2612 (Jun 1999), 8A886

Modeling a heat source-heat sink for tribological applications, Trib Trans **42**(1) 223-230 (Jan 1999), 8A902

Analytical approximations in modeling contacting rough surfaces, J Trib **121**(2) 234-239 (Apr 1999), 8A903

Frequency effects on the TEHD behavior of a tilting-pad journal bearing under dynamic loading, J Trib **121**(2) 321-326 (Apr 1999), 8A929

Averaging technique for the analysis of rough surface high bearing number gas flows, J Trib **121**(2) 333-340 (Apr 1999), 8A1268

Contact Mechanics in Tribology (Kluwer, Netherlands, 1998) 10R13

Principles and Applications of Tribology (Wiley, New York, 1999) 10R14

Quasistatic frictional problem with a normal compliance penalization term, Nonlinear Anal **37**(6) 689-705 (Sep 1999), 11T962

Coulomb friction limit cycles in elastic positioning systems, J Dyn Syst Meas Control **121**(2) 298-301 (Jun 1999), 12A957

Modeling of dynamic friction phenomena, Z Angew Math Mech **79**(6) 399-409 (1999), 12A960

292B. Friction

Comprehensive study of the friction and dynamic motion of the piston assembly, Proc Inst Mech Eng J: Eng Trib **212**(J3) 221-226 (1998), 1T1029

Identifying Coulomb and viscous friction from free-vibration decrements, Nonlinear Dyn **16**(4) 337-347 (Aug 1998), 2A267
Sticking model of suspended polysilicon microstructure including residual stress gradient and postrelease temperature, J Microelectromechanical Syst **7**(3) 339-344 (Sep 1998), 2T549
Effects of average lubricant velocity and sliding velocity on friction behavior in mild steel sheet forming, J Trib **120**(4) 724-728 (Oct 1998), 2A771
Comparison between direct and indirect friction measurements in a forced oscillator, J Appl Mech **65**(3) 783-786 (Sep 1998), 2T1004
Complementary relationship between the dynamic and thermal conditions of the friction trio traveller-ring-yarn (TRY) and the degree of wear of its elements, Fibres Textiles in E Europe **6**(1) 36-43 (Jan-Mar 1998), 2A1005
Fundamental study on rolling friction in the region of micro-displacement - 4th Report: Improvement of the linearity in transient rolling characteristic, J Japan Soc Precision Eng **64**(7) 1052-1056 (Jul 1998), 2A1006
True friction power intensity and scuffing in sliding contacts, J Trib **120**(4) 829-834 (Oct 1998), 2A1007
Friction force microscopy measurements: Normal and torsional spring constants for V-shaped cantilevers, J Trib **120**(4) 814-819 (Oct 1998), 2A1033
Fundamental study on normal load dependencey of friction characteristics in boundary lubrication, Trib Trans **41**(3) 341-349 (Jul 1998), 2A1251
Friction and wear behaviors of some O-containing organic compounds as additives in liquid paraffin, Wear **219**(1) 124-127 (Aug 1998), 3A929
Sliding friction, wear and oxidation behavior of CeF_3 compact in sliding against steels at temperatures to 700°C in air, Wear **219**(1) 73-77 (Aug 1998), 3A930
Contact analysis of rough surfaces under transition conditions in sliding line lubrication, Wear **219**(2) 206-212 (Sep 1998), 4A924
Dependence of the coefficient of friction on the sliding conditions in the high velocity range, J Trib **121**(1) 35-41 (Jan 1999), 4A925
Flying stiction, lubricant pick-up and carbon-overcoat wear of magnetic heads, J Trib **121**(1) 97-101 (Jan 1999), 4A926
Friction and wear behavior of Cu-Fe_3Al powder metallurgical composites in dry sliding, Wear **220**(1) 72-79 (Sep 1998), 4A927
Relation between friction force and relative speed during the slip-phase of a stick-slip cycle, Wear **219**(2) 220-226 (Sep 1998), 4A928
Tribological behaviors of 2-mercaptobenzoxazole derivatives as additives in liquid paraffin, Wear **219**(2) 184-187 (Sep 1998), 4A929
Effect of lubrication by mineral and synthetic oils on the sliding wear of plasma nitrided AISI 410 stainless steel, Wear **219**(2) 169-176 (Sep 1998), 4A934
Frictional characteristics of ceramics under water-lubricated conditions, Trib Letters **5**(4) 303-308 (Oct 1998), 4T1293
Distortion of a harmonic elastic wave reflected from a dry friction support, J Appl Mech **65**(4) 851-857 (Dec 1998), 5A196
Causes and effects of roller skewing in cylindrical roller bearings, Trib Trans **41**(4) 572-578 (Oct 1998), 5T817
Computational micro- and macroscopic models of contact and friction: Formulation, approach and applications, Wear **220**(2) 113-140 (Oct 1998), 5A818
Fifth International Symposium INSYCONT "98" held September 16-18, 1998 at the Technical University of Mining and Metallurgy, Cracow, Poland, Trib **29**(5) 579-843 (1998), 5A819
Friction behavior of electron beam modified ethylene-propylene diene monomer rubber surface, Wear **221**(1) 15-23 (Oct 1998), 5A820
Tribological behavior of aluminum alloys surface layer implanted with nitrogen ions by plasma immersion ion implantation, Wear **220**(2) 161-167 (Oct 1998), 5A821
Tribological behaviors of carbon filled polytetrafluoroethylene dry journal bearings, Wear **221**(1) 61-68 (Oct 1998), 5A822
Static sealing performance of gas mechanical seals including surface roughness and rarefaction effects, Trib Trans **41**(4) 531-536 (Oct 1998), 5A838
Relationship between frictional coefficient and frictional factor in asymmetrical sheet rolling, J Mat Processing Tech **86**(1-3) 271-277 (Feb 1999), 6A790
Friction and wear characteristics of lead and its compounds filled polytetrafluoroethylene composites under oil lubricated conditions, Trib Int **31**(7) 361-368 (Jul 1998), 6T1067
Friction and wear properties in dry, water- and oil-lubricated DLC against alumina and DLC against steel contacts, Wear **222**(2) 120-128 (Nov 1998), 6A1068
Macromodel approach to experimental study of polymer brushes rubbing, Wear **222**(1) 21-28 (Nov 1998), 6A1069
Surface instabilities in a Mooney-Rivlin body with frictional boundary conditions, Int J Adhesion Adhesives **18**(6) 413-419 (Dec 1998), 6A1070
Transient rolling behavior of a slider supported by two rollers, Trib Int **31**(7) 377-384 (Jul 1998), 6T1071
Tribological behaviors of (Ca, Mg)-Sialon under lubricating of polyols, Wear **223**(1-2) 143-149 (Dec 1998), 6A1072
Tribology of UHMWPE tested against a stainless steel counterface in unidirectional sliding in presence of model synovial fluids - Part 1, Wear **223**(1-2) 13-21 (Dec 1998), 6A1073
Control of low velocity friction and gear backlash in a machine tool feed drive system, Mechatronics **9**(1) 33-52 (Feb 1999), 7A394
Quasistatic contact problem with slip-dependent coefficient of friction, Math Methods Appl Sci **22**(3) 267-284 (Feb 1999), 7A494
Contact friction induced vibration between revolute and non-revolute bodies (Chinese), J Xi'an Jiaotong Univ **33**(1) 102-106 (1999), 7A886
Efficient simulation of motions involving Coulomb friction, J Guidance Control Dyn **22**(1) 78-86 (Jan-Feb 1999), 7A887
Friction and wear behaviors of S-[2-S-(2-hydroxylpropyl)benthiazole]dioctyldithiocarbamic acid ester as additive in liquid paraffin, Wear **224**(1) 50-55 (Jan 1999), 7A888
Origins of friction and wear of the thin metallic layer of metal evaporated magnetic tape, Wear **224**(1) 126-140 (Jan 1999), 7A889
Study of N and S heterocyclic compound as a potential lubricating oil additive, Wear **224**(1) 160-164 (Jan 1999), 7A890
Tribology of information storage devices (TSID '97), Trib Int **31**(8) 403-484 (Aug 1998), 7A891
Friction measurement apparatus for sheet metal forming, Wear **224**(1) 1-7 (Jan 1999), 7A893
Effect of coating thickness on friction variations in sliding between $CN_{0.1}$ coated Si(111) and a diamond pin, Wear **224**(1) 113-117 (Jan 1999), 7A902
Triboemission of charged particles and resistivity of solids, Trib Letters **6**(1) 37-40 (Dec 1998), 7A906
Sliding Friction: Physical Principles and Applications (Springer-Verlag, Berlin, 1998) 8R16
Friction compensation using adaptive nonlinear control with persistent excitation, Int J Control **72**(5) 457-479 (Mar 1999), 8A455
Discrete steady sliding problem, Z Angew Math Mech **79**(2) 75-90 (1999), 8A887
Friction and wear characteristics of aluminum alloy impregnated carbon composite, J Trib **121**(2) 294-300 (Apr 1999), 8A888
Illustrative examples of anisotropic friction with sliding path curvature effects, Int J Solids Struct **36**(19) 2849-2863 (Jul 1999), 8A889
Influence of pad pivot friction on tilting-pad journal bearing measurements - Part II: Dynamic coefficients, Trib Trans **42**(1) 250-256 (Jan 1999), 8T890
Mechanisms of friction and wear of metals against ceramics in vacuum, Wear **224**(2) 274-281 (Feb 1999), 8A891
Plowing friction under harmonic normal loads, J Trib **121**(2) 282-285 (Apr 1999), 8A892
Sliding behaviors of a unidirectionally oriented Si_3N_{4w}/Si_3N_4 composite, Wear **224**(2) 202-210 (Feb 1999), 8A893
Tribology of information storage devices, Vol 2, Trib Int **31**(10) 485-560 (Oct 1998), 8A894
World Tribology Congress, Vol 2, Trib Int **31**(10) 563-644 (Oct 1998), 8A895
Tribological properties and microstructure evolution of ultra-high molecular weight polyethylene, J Trib **121**(2) 394-402 (Apr 1999), 8A898
Wear and friction of PTFE seals, Wear **224**(2) 175-182 (Feb 1999), 8A899
Third body effects on graphite-XC48 steel magnetized sliding contact, J Trib **121**(2) 403-407 (Apr 1999), 8A916
Recent advances in polymer tribology, Trib Int **31**(11) 647-711 (Nov 1998), 9A1020
Stress history in rolling-sliding contact of rough surfaces, Trib Int **31**(12) 727-736 (Dec 1998), 9T1021
Stability of quasi-static slip in a single dof elastic system with rate and state dependent friction, J Mech Phys Solids **47**(6) 1207-1218 (Jun 1999), 10A115
Solving contact problem with friction by a new fast BEM, Chinese J Mech Eng **11**(3) 201-206 (Sep 1998), 10A530
Twelfth international conference on wear of materials, Atlanta Georgia, Wear **225-229**(PT-II) 701-1350 (Apr 1999), 10T1025
Twelfth international conference on wear of materials, Atlanta, Georgia, Wear **225-229**(PT-I) 1-700 (Apr 1999), 10T1026
Fundamentals of Nanoindentation and Nanotribology (MRS, Pittsburgh PA, 1999) 11N20
Class of frictional contact problems with proportional response to proportional loading, Mech Res Commun **26**(2) 197-202 (Mar-Apr 1999), 11T467
Experimental investigation of friction effects enhanced by tool geometry and forming method on plane strain sheet metal forming, Trib Trans **42**(2) 343-352 (Apr 1999), 11A699
Contact analysis of laser textured disks in magnetic head-disk interface, Wear **230**(1) 11-23 (May 1999), 11A963
Tribological behaviors of bronze-filled polytetrafluoroethylene dry journal bearings, Wear **230**(1) 61-69 (May 1999), 11A964
Tribology of tungsten disulfide films in humid environments: The role of a tailored metal-matrix composite substrate, Wear **230**(1) 24-34 (May 1999), 11A965
Contact mechanics of cellular solids, Wear **230**(1) 1-10 (May 1999), 11A976
Dynamic study of a structure with flexion-torsion coupling in the presence of dry friction, Nonlinear Dyn **18**(4) 321-337 (Apr 1999), 12A153
Pivot friction compensation using an accelerometer and a disturbance observer for hard disk drives, IEEE/ASME Trans Mechatronics **3**(3) 194-201 (Sep 1998), 12A480
Evaluation of the concept of rolling resistance, J Terramech **36**(3) 159-166 (Jul 1999), 12A949
Effect of molecular structure of heterocyclic compounds containing N, O and S on their tribological performance, Wear **231**(1) 65-70 (Jun 1999), 12A958
Model of third body abrasive friction and wear in hot metal forming, Wear **231**(1) 124-138 (Jun 1999), 12A959
Modeling of dynamic friction phenomena, Z Angew Math Mech **79**(6) 399-409 (1999), 12A960
Study on elasto-plastic impact friction, Wear **230**(2) 133-145 (May 1999), 12A961
Time dependence of liquid accumulation on flying sliders: Fly stiction, J Info Storage Processing Syst **1**(1) 33-38 (Jan 1999), 12T962
Workpiece-fixture static friction under dynamic loading, Wear **231**(1) 139-152 (Jun 1999), 12A963
Tribological performance of hypereutectic P-M Al-Si during sliding in oil, Wear **231**(1) 77-88 (Jun 1999), 12A972
Molecular dynamics simulation of boundary lubricated interfaces, J Comput-Aided Mat Des **6**(1) 69-80 (1999), 12A1264
Comparative evaluation of MoS_2 and WS_2 as power lubricants in high speed, multi-pad journal bearings, J Trib **121**(3) 625-630 (Jul 1999), 12A1276

292C. Adhesion

Accelerated vibration life tests of threadlocking adhesive, J Aircraft **35**(5) 816-820 (Sep-Oct 1998), 4A930
Analysis of traction curve in linear region considering volume viscoelasticity, J Trib **121**(2) 252-258 (Apr 1999), 8A896
Mechanical deformation in conductive adhesives as measured with electron-beam Moire, J Electron Packaging **121**(2) 69-74 (Jun 1999), 9A1022
Principles and Applications of Tribology (Wiley, New York, 1999) 10R14
Fundamentals of Nanoindentation and Nanotribology (MRS, Pittsburgh PA, 1999) 11N20
Model analysis of the adhesion properties of the interface between glass and polyamide 6 matrix in composites, Fibres Textiles in E Europe **6**(3) 47-50 (Jul-Aug 1998), 11T966

292D. Wear (unintentional)

Micro-end-milling - I: Wear and breakage, Int J Machine Tools Manuf **38**(12) 1419-1436 (Dec 1998), 1A819
Micro-end-milling - II: Extending tool life with a Smart Workpiece Holder, Int J Machine Tools Manuf **38**(12) 1437-1448 (Dec 1998), 1A820
Micro-end-milling - III: Wear estimation and tool breakage detection using acoustic emission signals, Int J Machine Tools Manuf **38**(12) 1449-1466 (Dec 1998), 1A821
Uniaxial tensile test and wear in metals, J Mat Processing Tech **79**(1-3) 113-124 (Jul 1998), 1A918
Correlation between the cutting fluid pressure distribution and the topography of tool wear in BTA drilling, J Manuf Sci Eng **120**(4) 821-822 (Nov 1998), 2A785
Tool wear in milling hardened die steel, J Manuf Sci Eng **120**(4) 669-673 (Nov 1998), 2A796
Wear of brush seals: Background and new modeling approach, Trib Trans **41**(3) 368-374 (Jul 1998), 2T1008
Development of a gear oil scuff test procedure to predict adhesive wear resistance of turbine engine lubricants, Trib Trans **41**(3) 307-316 (Jul 1998), 2T1261
Applying the FEM for determination of tool wear in conventional deep-drawing, J Mat Processing Tech **83**(1-3) 98-105 (Nov 1998), 3A31
Optimization of the draw-die design in conventional deep-drawing in order to minimize tool wear, J Mat Processing Tech **83**(1-3) 106-114 (Nov 1998), 3A692
Friction and wear behaviors of some O-containing organic compounds as additives in liquid paraffin, Wear **219**(1) 124-127 (Aug 1998), 3A929
Sliding friction, wear and oxidation behavior of CeF_3 compact in sliding against steels at temperatures to 700°C in air, Wear **219**(1) 73-77 (Aug 1998), 3A930
Correlation between abrasive wear resistance and changes in structure and residual stresses of steels, Trib Letters **5**(2-3) 223-229 (Aug 1998), 3A931
Wear and self-sharpening of vitrified bond diamond wheels during sapphire grinding, Wear **219**(1) 42-45 (Aug 1998), 3A932
Wear behavior of the piston-gudgeon pin in a heuristic compressor with replacement CFC refrigerants, Wear **219**(1) 8-15 (Aug 1998), 3A933
Pole tip recession studies of thin-film rigid disk head sliders - II: Effects of air bearing surface and pole tip region designs and carbon coating, Wear **219**(1) 30-41 (Aug 1998), 3A944
Role of triboparticulates in dry sliding wear, Trib Int **31**(5) 245-256 (May 1998), 3A945
Pole tip recession studies of thin-film rigid disk head sliders - I: Mechanisms of pole tip recession growth, Wear **219**(1) 16-29 (Aug 1998), 3A952
Friction and wear behavior of Cu-Fe_3Al powder metallurgical composites in dry sliding, Wear **220**(1) 72-79 (Sep 1998), 4A927
Tribological behaviors of 2-mercaptobenzoxazole derivatives as additives in liquid paraffin, Wear **219**(2) 184-187 (Sep 1998), 4A929
Abrasive wear due to the slow flow of a concentrated suspension, Wear **219**(2) 177-183 (Sep 1998), 4A931
Abrasive wear testing of dental restorative materials, Wear **219**(2) 213-219 (Sep 1998), 4A932
Application of the response surface method to the tribological analysis of a medium-carbon steel under mild-oxidational wear, J Trib **121**(1) 185-197 (Jan 1999), 4A933
Effect of lubrication by mineral and synthetic oils on the sliding wear of plasma nitrided AISI 410 stainless steel, Wear **219**(2) 169-176 (Sep 1998), 4A934
Experimental simulation of cutting wear in three-body abrasion, Wear **219**(2) 188-194 (Sep 1998), 4A935
Study of 3D analysis techniques and automatic classification systems for wear particles, J Trib **121**(1) 169-176 (Jan 1999), 4A936
Wear of elastomeric seals in abrasive slurries, Wear **220**(1) 9-21 (Sep 1998), 4A937
Wear studies of tungsten carbide cutting tools using micro-beam techniques, J Trib **121**(1) 177-184 (Jan 1999), 4A938
Wear volume and wear distribution of hydraulic motor cam rollers studied by a novel atomic force microscope technique, Wear **220**(1) 1-8 (Sep 1998), 4A939
Reinforced Plastics Durability (CRC Press, Boca Raton FL, 1998) 5N30
Fretting wear of sintered iron under low normal pressure, Wear **221**(2) 86-92 (Oct 1998), 5A677
Fifth International Symposium INSYCONT "98" held September 16-18, 1998 at the Technical University of Mining and Metallurgy, Cracow, Poland, Trib **29**(5) 579-843 (1998), 5A819
Tribological behavior of aluminum alloys surface layer implanted with nitrogen ions by plasma immersion ion implantation, Wear **220**(2) 161-167 (Oct 1998), 5A821
Tribological behaviors of carbon filled polytetrafluoroethylene dry journal bearings, Wear **221**(1) 61-68 (Oct 1998), 5A822
Abrasive wear of locomotive diesel engines and contaminant control, Trib Trans **41**(4) 605-609 (Oct 1998), 5A823
Application of EDS peak enhancement ratios for compositional analysis of microstructures evolved during sliding wear, Wear **221**(2) 134-137 (Oct 1998), 5T824
Break-in liner wear and piston ring assembly friction in a spark-ignited engine, Trib Trans **41**(4) 497-504 (Oct 1998), 5T825
Dry sliding wear behavior of bamboo, Wear **221**(1) 37-46 (Oct 1998), 5A826
Effect of graphitized cast irons hardness on wear of ceramics, Wear **221**(1) 55-60 (Oct 1998), 5A827
Fractal evaluation of pavement skid resistance variations - II: Surface wear, Chaos Solitons Fractals **9**(11) 1891-1899 (Nov 1998), 5A828
New type of wear-resistant material: Pseudo-elastic TiNi alloy, Wear **221**(2) 116-123 (Oct 1998), 5A829
Evaluation of wear and tribological properties of coatings rubbing against copper, Wear **220**(2) 154-160 (Oct 1998), 5A835
In situ wear measuring technique in engine cylinders, Trib Trans **41**(4) 579-585 (Oct 1998), 5A842
Material removal mechanisms of single-crystal silicon on nanoscale and at ultralow loads, Wear **223**(1-2) 66-78 (Dec 1998), 6A805
Acoustic emission monitoring of tool wear in end-milling using time-domain averaging, J Manuf Sci Eng **121**(1) 8-12 (Feb 1999), 6A992
Friction and wear characteristics of lead and its compounds filled polytetrafluoroethylene composites under oil lubricated conditions, Trib Int **31**(7) 361-368 (Jul 1998), 6T1067

Friction and wear properties in dry, water- and oil-lubricated DLC against alumina and DLC against steel contacts, Wear **222**(2) 120-128 (Nov 1998), 6A1068
Tribological behaviors of (Ca, Mg)-Sialon under lubricating of polyols, Wear **223**(1-2) 143-149 (Dec 1998), 6A1072
Tribology of UHMWPE tested against a stainless steel counterface in unidirectional sliding in presence of model synovial fluids - Part 1, Wear **223**(1-2) 13-21 (Dec 1998), 6A1073
Abrasive wear behavior of SiC whisker-reinforced silicate matrix composites, Wear **223**(1-2) 79-92 (Dec 1998), 6A1074
Abrasive wear of Al alloy - Al_2O_3 particle composite: A study on the combined effect of load and size of abrasive, Wear **223**(1-2) 131-138 (Dec 1998), 6A1075
Computer image analysis of wear particles in 3D for machine condition monitoring, Wear **223**(1-2) 157-166 (Dec 1998), 6A1076
Contribution of erosive wear to the performance degradation of sliding spool servovalves, Proc Inst Mech Eng J: Eng Trib **212**(J6) 437-451 (1998), 6T1077
Dry sliding wear behavior of aluminum alloy 2014 microalloyed with Sn ang Ag, Wear **222**(2) 84-92 (Nov 1998), 6A1078
Dry sliding wear behavior of molybdenum alloyed sintered steels, Wear **222**(1) 49-56 (Nov 1998), 6A1079
Effects of lubricant rheology and additive chemistry in the wear of Si_3N_4 sliding on steel, Wear **223**(1-2) 37-43 (Dec 1998), 6A1080
Fuzzy synthetic decision-making system in ferrographic analysis, Wear **222**(1) 1-20 (Nov 1998), 6A1081
Novel method to map and quantify wear on a micro-scale, Wear **222**(2) 93-102 (Nov 1998), 6A1082
On-line Hall-effect device for monitoring wear particle in oils, Wear **223**(1-2) 44-49 (Dec 1998), 6A1083
Quantitative wear analysis using atomic force microscopy, Wear **222**(2) 74-83 (Nov 1998), 6A1084
Transient wear of silicon nitride in lubricated rolling contact, Wear **223**(1-2) 58-65 (Dec 1998), 6A1085
Wear behavior of planar-random fiber-reinforced metal matrix composites, Wear **223**(1-2) 173-183 (Dec 1998), 6A1086
Wear of unlubricated metallic spur gears, Wear **222**(2) 103-113 (Nov 1998), 6A1087
Intelligent detection of drill wear, Mech Syst Signal Processing **12**(6) 863-873 (Nov 1998), 6A1095
Wear behavior of Z200 CD 12 steel, J Mech Behavior Mat **9**(4) 277-289 (1998), 7A712
Friction and wear behaviors of S-[2-S-(2-hydroxylpropyl)benthiazole]dioctyldithiocarbamic acid ester as additive in liquid paraffin, Wear **224**(1) 50-55 (Jan 1999), 7A888
Origins of friction and wear of the thin metallic layer of metal evaporated magnetic tape, Wear **224**(1) 126-140 (Jan 1999), 7A889
Study of N and S heterocyclic compound as a potential lubricating oil additive, Wear **224**(1) 160-164 (Jan 1999), 7A890
Tribology of information storage devices (TSID '97), Trib Int **31**(8) 403-484 (Aug 1998), 7A891
Comparison between two wear models, J Mat Processing Tech **87**(1-3) 223-229 (Mar 1999), 7A892
Friction measurement apparatus for sheet metal forming, Wear **224**(1) 1-7 (Jan 1999), 7A893
Materials transfer and formation of mechanically mixed layer in dry sliding wear of metal matrix composites against steel, Trib Letters **6**(1) 57-61 (Dec 1998), 7T894
Sliding wear behavior of zircon particles reinforced ZA-27 alloy composite materials, Wear **224**(1) 89-94 (Jan 1999), 7A895
Special Issue Fifth International Symposium - INSYCONT '98: Technical University of Mining and Metallurgy, Cracow Poland, Trib **29**(6) 871-1051 (1998), 7A896
Friction and wear characteristics of aluminum alloy impregnated carbon composite, J Trib **121**(2) 294-300 (Apr 1999), 8A888
Mechanisms of friction and wear of metals against ceramics in vacuum, Wear **224**(2) 274-281 (Feb 1999), 8A891
Plowing friction under harmonic normal loads, J Trib **121**(2) 282-285 (Apr 1999), 8A892
Sliding behaviors of a unidirectionally oriented $Si_3N_{4w}Si_3N_4$ composite, Wear **224**(2) 202-210 (Feb 1999), 8A893
Tribology of information storage devices, Vol 2, Trib Int **31**(10) 485-560 (Oct 1998), 8A894
World Tribology Congress, Vol 2, Trib Int **31**(10) 563-644 (Oct 1998), 8A895
Boundary additive effect on abrasive wear during single asperity plowing of a 3004 aluminum alloy, J Trib **121**(2) 384-393 (Apr 1999), 8A897
Tribological properties and microstructure evolution of ultra-high molecular weight polyethylene, J Trib **121**(2) 394-402 (Apr 1999), 8A898
Wear and friction of PTFE seals, Wear **224**(2) 175-182 (Feb 1999), 8A899
Wear mechanisms at the metal evaporated magnetic tape-head interface, J Trib **121**(2) 408-415 (Apr 1999), 8A900
Physical effects of intra-drive particulate contamination on the head-disk interface in magnetic hard disk drives, J Trib **121**(2) 352-358 (Apr 1999), 8A911
Third body effects on graphite-XC48 steel magnetized sliding contact, J Trib **121**(2) 403-407 (Apr 1999), 8A916
Recent advances in polymer tribology, Trib Int **31**(11) 647-711 (Nov 1998), 9A1020
Numerical analysis of long-term wear models, Machine Dyn Prob **20** 113-122 (1998), 9T1023
Effect of WC particle size on the abrasive wear of thermally sprayed WC-Co coatings, Mat Manuf Processes **14**(2) 175-184 (1999), 9T1031
Contact Mechanics in Tribology (Kluwer, Netherlands, 1998) 10R13
Twelfth international conference on wear of materials, Atlanta Georgia, Wear **225-229**(PT-II) 701-1350 (Apr 1999), 10T1025
Twelfth international conference on wear of materials, Atlanta, Georgia, Wear **225-229**(PT-I) 1-700 (Apr 1999), 10T1026
Full-scale railway wheel flat experiments, Proc Inst Mech Eng F **213**(F1) 1-13 (1999), 10A1027
Wear behavior of SiC particulate reinforced aluminum composites sliding against steel balls under dry and lubricated conditions, Trib Letters **6**(2) 113-122 (Mar 1999), 10T1028
Wear of liquid-solid two-phase flow pump using fuzzy comprehensive evaluation method (Chinese), J Xi'an Jiaotong Univ **33**(4) 73-76 (1999), 10A1029
Contact analysis of laser textured disks in magnetic head-disk interface, Wear **230**(1) 11-23 (May 1999), 11A963
Tribological behaviors of bronze-filled polytetrafluoroethylene dry journal bearings, Wear **230**(1) 61-69 (May 1999), 11A964
Tribology of tungsten disulfide films in humid environments: The role of a tailored metal-matrix composite substrate, Wear **230**(1) 24-34 (May 1999), 11A965
Damage in hot rolling work rolls, Wear **230**(1) 56-60 (May 1999), 11A967
Effect of the geometry and the surface treatment of punching tools on the tool life and wear conditions in the piercing of thick steel plate, J Mat Processing Tech **88**(1-3) 122-133 (Apr 1999), 11A968
Electrostatic monitoring of oil lubricated sliding point contacts for early detection of scuffing, Wear **230**(1) 86-97 (May 1999), 11A969
Influence of lubricant on the morphology of ultra-high molecular weight polyethylene wear debris generated in laboratory tests, Proc Inst Mech Eng H **213**(H2) 155-158 (1999), 11A1651
Potential of acoustic emission for the characterization and understanding of mechanical damaging during abrasion-corrosion processes, Wear **231**(1) 108-115 (Jun 1999), 12A792
Fretting wear behavior of hypereutectic P-M Al-Si in oil environment, Wear **230**(2) 105-117 (May 1999), 12A794
Effect of molecular structure of heterocyclic compounds containing N, O and S on their tribological performance, Wear **231**(1) 65-70 (Jun 1999), 12A958
Model of third body abrasive friction and wear in hot metal forming, Wear **231**(1) 124-138 (Jun 1999), 12A959
Grooving wear of single-crystal tungsten carbide, Wear **230**(2) 165-174 (May 1999), 12A964
Modeling of reaction film failure in gear lubrication, Wear **231**(1) 71-76 (Jun 1999), 12A965
Oxidation reaction during sliding wear influencing the formation of either amorphous or nano crystalline debris, Wear **231**(1) 116-123 (Jun 1999), 12A966
Predictive wear modeling of lubricated piston rings in a diesel engine, Wear **231**(1) 89-101 (Jun 1999), 12A967
Study on mechanism for minute tool electrode wear in dry EDM (Japanese), J Japan Soc Precision Eng **65**(5) 689-693 (May 1999), 12A968
Tribo-metallographaic behavior of high carbon steels in dry sliding - Part III: Dynamic microstructural changes and wear, Wear **231**(1) 20-37 (Jun 1999), 12A969
Tribo-metallographic behavior of high carbon steels in dry sliding - Part 1: Wear mechanisms and their transition, Wear **231**(1) 1-11 (Jun 1999), 12A970
Tribo-metallographic behavior of high carbon steels in dry sliding - Part II: Microstructure and wear, Wear **231**(1) 12-19 (Jun 1999), 12A971
Tribological performance of hypereutectic P-M Al-Si during sliding in oil, Wear **231**(1) 77-88 (Jun 1999), 12A972
Wear improvements of stainless steel and tungsten carbide substrates covered by thin carbon films combining ion beam assisted deposition and plasma enhanced chemical vapor deposition from pure CH_4 deposition methods, Wear **231**(1) 38-46 (June 1999), 12A973
Wear of rotary carbide tools in machining of Al-SiCp composites, Wear **230**(2) 124-132 (May 1999), 12A974
New method to measure wear cracks by using reflected light intensity, Wear **231**(1) 153-157 (Jun 1999), 12A1001
Comparative evaluation of MoS_2 and WS_2 as power lubricants in high speed, multi-pad journal bearings, J Trib **121**(3) 625-630 (Jul 1999), 12A1276

292E. Contact fatigue

New principle in contact mechanics, J Trib **120**(4) 677-684 (Oct 1998), 2A621
Analysis of surface tractions in complex fretting fatigue cycles using quadratic programming, J Trib **120**(4) 744-749 (Oct 1998), 2A848
Fatigue prediction of thin hard coatings on the steel races of hybrid bearings used in high speed machine tool spindles, J Trib **120**(4) 835-842 (Oct 1998), 2A1016
Three-dimensional elastic-plastic fractal analysis of surface adhesion in microelectromechanical systems, J Trib **120**(4) 808-813 (Oct 1998), 2A1027
Fretting fatigue conditions for two types of turboalternator rotor, Proc Inst Mech Eng C **212**(C6) 429-440 (1998), 3A934
Numerical modeling of a 3D rail RCF "squat"-type crack under operating load, Fatigue Fracture Eng Mat Struct **21**(8) 923-935 (1998), 3A935
Optimal pre-stressing the surface of a component by superfinish hard turning for maximum fatigue life in rolling contact, Wear **219**(1) 128-140 (Aug 1998), 3A936
Evaluation of the bond strength of hard coatings by the contact fatigue test, J Adhesion Sci Tech **12**(10) 1055-1069 (1998), 3A1001
Lundberg-Palmgren fatigue theory: Considerations of failure stress and stressed volume, J Trib **121**(1) 85-89 (Jan 1999), 4A940
Mid-life scuffing failure in automotive cam - follower contacts, Proc Inst Mech Eng J: Eng Trib **212**(J4) 259-269 (1998), 4T941
Rolling Contact Fatigue resistance of Austempered Ductile Iron, Wear **221**(1) 69-74 (Oct 1998), 5A830
Influence of lubricant rheology and surface topography in modeling friction at concentrated contacts, Proc Inst Mech Eng J: Eng Trib **212**(J6) 391-400 (1998), 6T1339
Special Issue Fifth International Symposium - INSYCONT '98: Technical University of Mining and Metallurgy, Cracow Poland, Trib **29**(6) 871-1051 (1998), 7A896
Model for rolling contact failure, Wear **224**(1) 38-49 (Jan 1999), 7A897
Numerical study of polymer surface wear caused by sliding contact, Wear **224**(1) 141-152 (Jan 1999), 7A898
Role of inclusions, surface roughness and operating conditions on rolling contact fatigue, J Trib **121**(2) 240-251 (Apr 1999), 8A901
Data fitted bearing life prediction model for variable operating conditions, Trib Trans **42**(1) 241-249 (Jan 1999), 8T926
Plasticity in fretting of coated substrates, Eng Fracture Mech **62**(2-3) 145-164 (Jan-Feb 1999), 9A1024
Principles and Applications of Tribology (Wiley, New York, 1999) 10R14
Effect of material, heat treatment, grinding, and shot peening on contact fatigue life of carburized steels, Int J Fatigue **21**(4) 309-327 (Apr 1999), 10A1030
Failure modes of plasma sprayed WC-15%Co coated rolling elements, Wear **230**(1) 39-55 (May 1999), 11A970
Origins of partial slip in fretting: A review of known and potential solutions, J Strain Anal Eng Des **34**(3) 175-181 (May 1999), 11A971
Standing contact fatigue, Fatigue Fracture Eng Mat Struct **22**(3) 225-237 (Mar 1999), 11A972
Finite element analysis on local yield map and critical maximum contact pressure for yielding in hard coating with an interlayer under sliding contact, Trib Int **32**(1) 25-32 (Jan 1999), 12T39
Apparatus for quantitative fretting fatigue testing, Fatigue Fracture Eng Mat Struct **22**(4) 307-320 (Apr 1999), 12A975
Deformation of rough line contacts, J Trib **121**(3) 449-454 (Jul 1999), 12A976
Influence of heat generation in the contact zone on bearing fatigue behavior, J Trib **121**(3) 462-467 (Jul 1999), 12A977

292F. Thermomechanical effects

Magnetic field assisted finishing of ceramics - Part I: Thermal model, J Trib **120**(4) 645-651 (Oct 1998), 2A778
Theoretical analysis of heat partition and temperatures in grinding, J Trib **120**(4) 789-794 (Oct 1998), 2A801
Magnetic field assisted finishing of ceramics - Part II: On the thermal aspects of magnetic float polishing of ceramic balls, J Trib **120**(4) 652-659 (Oct 1998), 2A819
Magnetic field assisted finishing of ceramics - Part III: On the thermal aspects of magnetic abrasive finishing of ceramic rollers, J Trib **120**(4) 660-667 (Oct 1998), 2A820
Elastic contact and friction between sliders and circumferentially textured disks - Part III: Experiments, J Trib **120**(4) 800-807 (Oct 1998), 2A1009
Method of influence functions for thermal analyses of tribological elements, Trib Trans **41**(3) 350-358 (Jul 1998), 2T1010
Modeling of interface heat exchange between casting bar and graphite sleeve of horizontal continuous casting (Chinese), J Xi'an Jiaotong Univ **32**(7) 90-93 (1998), 3A714
Improved method for the measurement of asperity compliance of magnetic tapes, J Trib **121**(1) 121-127 (Jan 1999), 4A957
Development of 1232°C (2250°F) erosion and impact tests for thermal barrier coatings, Trib Trans **41**(4) 399-410 (Oct 1998), 5T831
Effect of material properties in certain thermoelastic contact problems, J Appl Mech **65**(4) 889-893 (Dec 1998), 5A832
Fluid temperature and film coefficient prediction and measurement in mechanical face seals: Numerical results, Trib Trans **41**(4) 459-470 (Oct 1998), 5A833
Fluid temperature and film coefficient prediction and measurement in mechanical face seals: Experimental results, Trib Trans **41**(4) 411-422 (Oct 1998), 5A856
Quasi-static thermoelastic state of two-layered orthotropic circular cylinder under the friction heating (Russian), Prikl Mekh (Appl Mech) **34**(9) 46-54 (1998), 6A1398
Thermoelastic study on brake pads using FE analysis, J Eng Appl Sci **45**(5) 709-719 (Oct 1998), 7A899
Modeling a heat source-heat sink for tribological applications, Trib Trans **42**(1) 223-230 (Jan 1999), 8A902
Recent advances in polymer tribology, Trib Int **31**(11) 647-711 (Nov 1998), 9A1020
Effect of hard coating properties on substrate stresses under tribological loads, Mat Manuf Processes **14**(2) 243-255 (1999), 9A1029
Tribological evaluation of plasma sprayed coatings for high temperature sliding surface against cordierite, Mat Manuf Processes **14**(2) 185-194 (1999), 9T1037
Numerical study of axisymmetrical process dimension of wear of machine parts recovery by means of thermoplasticity deformation (Russian), Prikl Mekh (Appl Mech) **34**(11) 84-91 (1998), 10A1031
Disturbance-observer-based nonlinear friction compensation in table drive system, IEEE/ASME Trans Mechatronics **4**(1) 3-8 (Mar 1999), 12A465
Thermal characteristics of a wet clutch, J Trib **121**(3) 610-617 (Jul 1999), 12A978

292G. Friction materials

Effect of carbon fiber direction of unidirectionally reinforced epoxy composites on frictional behavior (Japanese), J Soc Mat Sci Japan **47**(6) 618-624 (Jun 1998), 1A611
Ultra-thin overcoats for the head-disk interface tribology, J Trib **120**(4) 795-799 (Oct 1998), 2A1029
Correlation between abrasive wear resistance and changes in structure and residual stresses of steels, Trib Letters **5**(2-3) 223-229 (Aug 1998), 3A931
Role of triboparticulates in dry sliding wear, Trib Int **31**(5) 245-256 (May 1998), 3A945
Study of 3D analysis techniques and automatic classification systems for wear particles, J Trib **121**(1) 169-176 (Jan 1999), 4A936
Synthesis, hydrolytic stability and tribological properties of novel borate esters containing nitrogen as lubricant additives, Wear **222**(2) 135-144 (Nov 1998), 6A1341
Detachment of rough particles with electrostatic attraction from surfaces in turbulent flows, J Adhesion Sci Tech **13**(3) 325-355 (1999), 8A1191
Particle generation by solid-lubricated bearings and ball screws in vacuum environments, Trib Trans **42**(1) 162-167 (Jan 1999), 8T1271
Recent advances in polymer tribology, Trib Int **31**(11) 647-711 (Nov 1998), 9A1020
Tribological performance of PFPE and X-1P lubricants at head-disk interface - Part II: Mechanisms, Trib Letters **6**(2) 141-148 (Mar 1999), 10A1032
Effect of vapor phase chemicals on head-disk interface tribology, Trib Trans **42**(2) 310-316 (Apr 1999), 11A977
Laser texture tribological study of alternative substrates, Trib Trans **42**(2) 369-376 (Apr 1999), 11T980
Experimental investigation of the influence of adhesion on the frictional conditions in the cutting process, Trib Int **32**(1) 15-23 (Jan 1999), 12T729

292H. Surface effects, topography, coatings

Force model for nose radius worn tools with a chamfered main cutting edge, Int J Machine Tools Manuf **38**(12) 1467-1498 (Dec 1998), 1A784
Excimer laser surface treatment of sheet molding compound for adhesive bonding, Mat Manuf Processes **13**(3) 359-368 (1998), 1A817
Comprehensive study of the friction and dynamic motion of the piston assembly, Proc Inst Mech Eng J: Eng Trib **212**(J3) 221-226 (1998), 1T1029
Parallel net of (1-NN, k-NN) classifiers for optical inspection of surface defects in ferrites, Machine Graphics & Vision **7**(1-2) 99-112 (1998), 1T1030
Thermal oxidation treatments in the development of new coasted biomaterials: Application to the MA 956 superalloy, Mat Manuf Processes **13**(3) 431-443 (1998), 1T1521
Surface hardening of alloy steels using a high intensity electron beam, Mat Manuf Processes **13**(4) 555-564 (1998), 2T817
True friction power intensity and scuffing in sliding contacts, J Trib **120**(4) 829-834 (Oct 1998), 2A1007
Elastic contact and friction between sliders and circumferentially textured disks - Part III: Experiments, J Trib **120**(4) 800-807 (Oct 1998), 2A1009
Analysis of the friction parameters of the oxide covers slide against the plastic TG 15 (Polish), Trib **29**(1) 69-79 (1998), 2T1011
Effect of aliphatic alcohols C_4 - C_{18} on wear of the steel-on-steel mating elements, Trib **29**(3) 367-380 (1998), 2T1012
Effect of pigment on supermolecular structure and surface morphology of polypropylene fibers, Fibres Textiles in E Europe **6**(1) 55-58 (Jan-Mar 1998), 2A1013
Effect of selected dicarboxylic acid esters on wear of the steel-on-steel mating elements (Polish), Trib **29**(3) 353-366 (1998), 2A1014
Effect of stress state of different tin films on their tribological behavior, J Trib **120**(4) 820-828 (Oct 1998), 2A1015
Effect of stress state of different tin films on their tribological behavior, J Trib **120**(4) 820-828 (Oct 1998), 2A1015
Fatigue prediction of thin hard coatings on the steel races of hybrid bearings used in high speed machine tool spindles, J Trib **120**(4) 835-842 (Oct 1998), 2A1016
Influence of fatty acids solutions in hydrocarbons and petroleum fractions on the antiwear properties of the steel-on-steel system (Polish), Trib **29**(3) 285-317 (1998), 2T1017
Influence of solid macro- and microstructure on surface layer properties (Polish), Trib **29**(3) 241-253 (1998), 2A1018
Interaction of hydrogen with vanadium layers peadsorbed on tungsten field emitter tip, Acta Phys Polonica A **93**(5-6) 763-773 (May-Jun 1998), 2T1019
Interfacial interactions in tribological contact (Polish), Trib **29**(3) 254-264 (1998), 2A1020
Investigation of antiwear properties of 1-alkenes in steel-on-steel tribosystem (Polish), Trib **29**(3) 330-338 (1998), 2A1021
Investigation of antiwear properties and tribochemical reactions of esters of plmitic and aliphatic alcohols in the steel-on-steel system (Polish), Trib **29**(3) 389-402 (1998), 2T1022
Sliding wear studies of selected nitride coatings and their potential for long-term use in orthopaedic applications, Proc Inst Mech Eng H **212**(H4) 303-315 (1998), 2A1023
Statistical model of coating fragmentation under equibiaxial load, Mat Manuf Processes **13**(4) 597-602 (1998), 2T1024
Surface and thin film magnetization of isotropic and anisotropic Heisenberg ferromagnet at low temperatures, Acta Phys Polonica A **93**(5-6) 785-797 (May-Jun 1998), 2T1025
Surface improvement and durability of case-carburized gear - 2nd Report: Effects of shot peening and barreling processes, Int J Japan Soc Precision Eng 32(2) 104-109 (Jun 1998), 2T1026
Three-dimensional elastic-plastic fractal analysis of surface adhesion in microelectromechanical systems, J Trib **120**(4) 808-813 (Oct 1998), 2A1027
Tribochemical characteristic of some vinyl-type compounds in aspect of antiwear interactions (Polish), Trib **29**(3) 318-329 (1998), 2T1028
Ultra-thin overcoats for the head-disk interface tribology, J Trib **120**(4) 795-799 (Oct 1998), 2A1029
Surface roughness effects in hydrodynamic lubrication involving the mixture of two fluids, J Trib **120**(4) 772-780 (Oct 1998), 2A1254
Engineering approach to deterministic modeling of mixed-film contacts, Trib Trans **41**(3) 327-334 (Jul 1998), 2A1258
Waviness amplitude reduction in EHL line contacts under rolling-sliding, J Trib **120**(4) 705-709 (Oct 1998), 2A1260
Effect of lateral resolution on topographical images and 3D functional parameters, Wear **219**(1) 114-123 (Aug 1998), 3A937
Effects of nanoscale morphology on the abrasion of steel by diamondlike carbon, Wear **219**(1) 98-104 (Aug 1998), 3A938
Experimental investigation of rolling contact of rigid bodies with polymer coating, Wear **219**(1) 105-113 (Aug 1998), 3A939
Fracture strength of a thin film in a ceramics film-substrate system (Japanese), J Soc Mat Sci Japan **47**(8) 819-824 (Aug 1998), 3A940
Genetic algorithm for determining scale independent fractals associated with grinding surface (Chinese), J Xi'an Jiaotong Univ **32**(7) 72-75 (1998), 3A941
Interaction of a coated target and an impinging waterdrop, Wear **219**(1) 60-72 (Aug 1998), 3A942
Performance of marine coatings and pipe materials under fluid-borne sand erosion, Wear **219**(1) 46-59 (Aug 1998), 3A943
Pole tip recession studies of thin-film rigid disk head sliders - II: Effects of air bearing surface and pole tip region designs and carbon coating, Wear **219**(1) 30-41 (Aug 1998), 3A944
Role of triboparticulates in dry sliding wear, Trib Int **31**(5) 245-256 (May 1998), 3A945
Static energy calculations of stress-strain behavior of self-assembled monolayers, Trib Letters **5**(2-3) 191-195 (Aug 1998), 3T946
Stick-slip motion in the atomic force microscope, Trib Letters **5**(2-3) 155-160 (Aug 1998), 3T947
Study on evaluation method for paint film deterioration of steel bridge with image processing technology (Japanese), Proc JSCE **598**(I-44) 85-96 (Jul 1998), 3A948
Adhesive contact of flat-ended wedges: Theory and computer experiments, J Trib **121**(1) 128-132 (Jan 1999), 4A923
Flying stiction, lubricant pick-up and carbon-overcoat wear of magnetic heads, J Trib **121**(1) 97-101 (Jan 1999), 4A926
Mid-life scuffing failure in automotive cam - follower contacts, Proc Inst Mech Eng J: Eng Trib **212**(J4) 259-269 (1998), 4T941
Annealing improvement of triblogical properties of manganese phosphate coatings, Wear **219**(2) 195-204 (Sep 1998), 4A942
Chemo-mechanical polishing of silicon nitride (Si_3N_4) workmaterial with various abrasives, Wear **220**(1) 59-71 (Sep 1998), 4A943
Equilibrium analysis of finite width tension dominated foil bearings, J Trib **121**(1) 108-113 (Jan 1999), 4A944
Micromechanical and tribological characterization of hard amorphous carbon coatings as thin as 5 nm for magnetic recording heads, Wear **220**(1) 51-58 (Sep 1998), 4A945
New approach to calculation of contact characteristics, J Trib **121**(1) 20-27 (Jan 1999), 4A946
Processing, structure, and tribological behavior of TiC-reinforced plasma sprayed coatings, Wear **220**(1) 34-50 (Sep 1998), 4A947
Rolling contact fatigue performance of plasma sprayed coatings, Wear **220**(1) 80-91 (Sep 1998), 4A948
Scuffing failure of hydrodynamic bearings in the presence of an abrasive contaminant, J Trib **121**(1) 90-96 (Jan 1999), 4A949
Study on read-back signal degradation of a pseudo-contact head during seek motion of a hard disk drive, Trib Letters **5**(4) 275-282 (Oct 1998), 4T950
Improved method for the measurement of asperity compliance of magnetic tapes, J Trib **121**(1) 121-127 (Jan 1999), 4A957
Optimum condition of manufacturing a smooth engineered surface using the internal-ironing process, Trib Trans **41**(4) 563-571 (Oct 1998), 5A622
Solid particle erosion behavior of thermal sprayed ceramic, metallic and polymer coatings, Wear **221**(2) 93-108 (Oct 1998), 5A680
Crystallization of amorphous debris on titanium nitride coatings influenced by sliding wear conditions, Wear **221**(2) 124-133 (Oct 1998), 5A834
Evaluation of wear and tribological properties of coatings rubbing against copper, Wear **220**(2) 154-160 (Oct 1998), 5A835
Mechanism of surface modification of CeO_2 in laser remelted alloy spray coatings, Wear **221**(1) 47-53 (Oct 1998), 5A836
New method of wave mode conversion for tiny pits evaluation on surfaces (Chinese), J Huazhong Univ Sci Tech **26**(11) 92-94 (Nov 1998), 5A837
Static sealing performance of gas mechanical seals including surface roughness and rarefaction effects, Trib Trans **41**(4) 531-536 (Oct 1998), 5A838
Tribological characteristics of various surface coatings for rotary compressor vane, Wear **221**(2) 77-85 (Oct 1998), 5A839
Observations in transiently loaded EHL contacts under pure sliding conditions, Trib Trans **41**(4) 489-496 (Oct 1998), 5T1153
Plowing erosion of organic coatings by spherical particles, Wear **222**(1) 38-48 (Nov 1998), 6A877
Wear of unlubricated metallic spur gears, Wear **222**(2) 103-113 (Nov 1998), 6A1087
Coating thickness effect on surface damage mode transitions for an ion beam assisted carbon nitride coating subject to sliding contact with a spherical diamond, Wear **223**(1-2) 167-172 (Dec 1998), 6A1088
Definition of the topography of grit-blasted surfaces for plasma sprayed alumina coatings, J Manuf Sci Eng **121**(1) 49-53 (Feb 1999), 6A1089
Friction reduction in total joint arthroplasty, Wear **222**(1) 29-37 (Nov 1998), 6A1090
Influence of surface wettability on friction and wear tests, Wear **222**(1) 57-65 (Nov 1998), 6A1091
Influence of tip shape in abrasion studied by controlled multiasperity surfaces, Wear **223**(1-2) 150-156 (Dec 1998), 6A1092
Optimum multilayer TiN-TiCN coatings for wear resistance and actual application, Wear **223**(1-2) 119-130 (Dec 1998), 6A1093
Scaling relationships for the abrasion of steel by diamond-like carbon coatings, Wear **223**(1-2) 31-36 (Dec 1998), 6A1094
Elastohydrodynamic solution for concentrated elliptical point contact of machine elements under combined entraining and squeeze-film motion, Proc Inst Mech Eng J: Eng Trib **212**(J6) 401-411 (1998), 6A1338
Erosion of thermal spray $MCr-Cr_3C_2$ cermet coatings, Wear **224**(1) 153-159 (Jan 1999), 7A708
Tribology of information storage devices (TSID '97), Trib Int **31**(8) 403-484 (Aug 1998), 7A891
AFM analysis of surface textures of metal sheets caused by sliding with bulk plastic deformation, Wear **224**(1) 73-88 (Jan 1999), 7A900
Coating removal from fiber-composites and aluminum using starch media blasting, Wear **224**(1) 22-37 (Jan 1999), 7A901
Effect of coating thickness on friction variations in sliding between $CN_{0.1}$ coated Si(111) and a diamond pin, Wear **224**(1) 113-117 (Jan 1999), 7A902
Effects of elevated temperatures and topographies of worn surfaces on friction and wear of ceramics in vacuum, Wear **224**(1) 165-172 (Jan 1999), 7A903
Finite element analysis wear simulation of a conical spinning contact considering surface topography, Wear **224**(1) 13-21 (Jan 1999), 7A904
Particle size effect in abrasion studied by controlled abrasive surfaces, Wear **224**(1) 118-125 (Jan 1999), 7A905
Triboemission of charged particles and resistivity of solids, Trib Letters **6**(1) 37-40 (Dec 1998), 7A906
Sliding Friction: Physical Principles and Applications (Springer-Verlag, Berlin, 1998) 8R16
Effects of contact pressure and strain on friction in sheet-metal forming, Trib Trans **42**(1) 144-151 (Jan 1999), 8A713
Analysis of traction curve in linear region considering volume viscoelasticity, J Trib **121**(2) 252-258 (Apr 1999), 8A896
Boundary additive effect on abrasive wear during single asperity plowing of a 3004 aluminum alloy, J Trib **121**(2) 384-393 (Apr 1999), 8A897
Analytical approximations in modeling contacting rough surfaces, J Trib **121**(2) 234-239 (Apr 1999), 8A903
Application of multi-level multi-integration to contact problems - Part 1: Non-Hertzian contact in rolling bearings, Proc Inst Mech Eng J: Eng Trib **213**(J1) 63-80 (1999), 8A904
Characterization of surface roughness by laser light scattering: Diffusely scattered intensity measurement, Wear **224**(2) 236-244 (Feb 1999), 8A905
Comparative study on fretting wear-resistant properties of ion-plated TiN and magnetron-sputtered MoS_2 coatings, Wear **224**(2) 211-215 (Feb 1999), 8A906
Degradation of perfluoropolyether fluids with metal ions, J Trib **121**(2) 348-351 (Apr 1999), 8A907
Determination of compliance relationships for transversely isotropic hard surface coatings using the FEM, J Trib **121**(2) 416-418 (Apr 1999), 8T908
Diamond coatings on cemented tungsten carbide tools by low-pressure microwave CVD, Wear **224**(2) 245-266 (Feb 1999), 8A909
Formulation of a non-steady lubrication problem for a non-conformal contact, Trib Trans **42**(1) 53-57 (Jan 1999), 8A910
Physical effects of intra-drive particulate contamination on the head-disk interface in magnetic hard disk drives, J Trib **121**(2) 352-358 (Apr 1999), 8A911
Rolling contact testing of vapor phase lubricants - Part III: Surface analysis, Trib Trans **42**(1) 1-9 (Jan 1999), 8T912
Rolling contact testing of vapor phase lubricants - Part IV: Diffusion mechanisms, Trib Trans **42**(1) 10-20 (Jan 1999), 8T913
Selection of durable coatings for cryogenic engine technology, Mat Manuf Processes **14**(1) 107-121 (1999), 8T914
Surface roughening and contact behavior in forming of aluminum sheet, J Trib **121**(2) 224-233 (Apr 1999), 8A915
Third body effects on graphite-XC48 steel magnetized sliding contact, J Trib **121**(2) 403-407 (Apr 1999), 8A916
Static rolling bearing models in a CAD environment for the study of complex mechanisms - Part I: Rolling bearing model, J Trib **121**(2) 205-214 (Apr 1999), 8A931
Static rolling bearing models in a CAD environment for the study of complex mechanisms - Part II: Complete assembly model, J Trib **121**(2) 215-223 (Apr 1999), 8A932
Meniscus shape and splashing of magnetic fluid in a magnetic fluid seal, J Trib **121**(2) 377-383 (Apr 1999), 8A935
Thermal modeling and effects from debris particles in sliding-rolling EHD line contacts: A possible local scuffing mode, J Trib **121**(2) 272-281 (Apr 1999), 8A1264
Averaging technique for the analysis of rough surface high bearing number gas flows, J Trib **121**(2) 333-340 (Apr 1999), 8A1268
Laser surface alloying of (pre-placed) SiC and Ni-SiC coating on commercially pure titanium, Mat Manuf Processes **14**(2) 285-296 (1999), 9T791
Stress history in rolling-sliding contact of rough surfaces, Trib Int **31**(12) 727-736 (Dec 1998), 9T1021
Angle-based position detection method for precision machines, JSME Int J Ser C **42**(1) 44-48 (Mar 1999), 9A1025
Application of fractal dimension to optimum deposition of NiCrAlY coating by D-gun spray, Mat Manuf Processes **14**(2) 195-204 (1999), 9T1026
Basic study on measurement of 2D surface profile - 2nd Report: Measurement error analysis, JSME Int J Ser C **40**(3) 439-446 (Sep 1997), 9A1027
Development of an AFM-based system for in-process measurement of micro-defects on machined surfaces, JSME Int J Ser C **42**(1) 49-53 (Mar 1999), 9A1028
Effect of hard coating properties on substrate stresses under tribological loads, Mat Manuf Processes **14**(2) 243-255 (1999), 9A1029
Effect of substrate pretreatment on PVD TiN hard coating performance, Mat Manuf Processes **14**(2) 257-269 (1999), 9T1030
Effect of WC particle size on the abrasive wear of thermally sprayed WC-Co coatings, Mat Manuf Processes **14**(2) 175-184 (1999), 9T1031
Evaluation of surface texture by parameters, J Huazhong Univ Sci Tech **27**(1) 56-59 (Jan 1999), 9A1032
Fractal characteristics of free-surface profiles of metal sheets under equi-biaxial tension, JSME Int J Ser C **41**(3) 485-492 (Sep 1998), 9A1033
MBE growth and properties of GaMnAs(100) films, Acta Phys Polonica A **94**(3) 509-513 (Sep 1998), 9T1034
Roughness due to workpiece wear generated in surface grinding of metals, Trib Int **31**(12) 771-778 (Dec 1998), 9A1035
Study of 2D hole gas at Si-SiGe-Si inverted interface, Acta Phys Polonica A **94**(3) 503-508 (Sep 1998), 9T1036
Tribological evaluation of plasma sprayed coatings for high temperature sliding surface against cordierite, Mat Manuf Processes **14**(2) 185-194 (1999), 9T1037
Influence of light on fatigue in PZT films with planar electrodes, Arch Acoust **23**(3) 443-450 (1998), 10A839
Twelfth international conference on wear of materials, Atlanta Georgia, Wear **225-229**(PT-II) 701-1350 (Apr 1999), 10T1025
Twelfth international conference on wear of materials, Atlanta, Georgia, Wear **225-229**(PT-I) 1-700 (Apr 1999), 10T1026
Tribological performance of PFPE and X-1P lubricants at head-disk interface - Part II: Mechanisms, Trib Letters **6**(2) 141-148 (Mar 1999), 10A1032
Simulation of structural characteristics of ceramic coating film based on modeling of sputtering process, JSME Int J Ser A **41**(1) 25-30 (Jan 1998), 10A1033
Fundamentals of Nanoindentation and Nanotribology (MRS, Pittsburgh PA, 1999) 11N20
Residual stresses in galvanizing, Mat Manuf Processes **14**(3) 413-426 (1999), 11T716
First and second generation electron beam surface engineering, Mat Manuf Processes **14**(3) 321-330 (1999), 11T724
Pulsed laser deposition of superhard nitride coatings, Mat Manuf Processes **14**(3) 397-411 (1999), 11T725
Approach for fatigue cracking failure prediction of ceramic rolling elements under Hertzian loading, Trib Trans **42**(2) 289-295 (Apr 1999), 11A973
Characteristics of tribologically investigated surfaces in the presence of ferrocene sulphur derivatives, Trib **30**(1) 21-39 (1999), 11A974
Concepts and limitations of using optical profilometry for air bearing simulations of hard disk sliders, Trib Trans **42**(2) 413-418 (Apr 1999), 11A975
Contact mechanics of cellular solids, Wear **230**(1) 1-10 (May 1999), 11A976
Effect of vapor phase chemicals on head-disk interface tribology, Trib Trans **42**(2) 310-316 (Apr 1999);, 11A977

Electric contact surface of Pd-plated metal in organic gas-air atmospheres, Wear **230**(1) 78-85 (May 1999), 11A978

Influence of modifying material and technological parameters on tribological properties of sliding pairs containing elements with two-component surface layer, Trib **30**(1) 71-86 (1999), 11A979

Laser texture tribological study of alternative substrates, Trib Trans **42**(2) 369-376 (Apr 1999), 11T980

Potential of the internal plasma spray technology for the coating of cylinder bores on AlSi cast alloy, Trib **30**(1) 7-20 (1999), 11A981

Tribological behavior of plasma sprayed Al_20_3-based cermet coatings, Wear **230**(1) 70-77 (May 1999), 11A982

Effect of gas conditions on HVOF flame and properties of WC-Co coatings, Mat Manuf Processes **14**(3) 383-395 (1999), 11T1166

Tantalum oxide thin films as protective coatings for sensors, J Micromech Microeng **9**(2) 113-118 (Jun 1999), 12T446

Tribology of the interface for magnetic data recording on the image area of photographic film, J Info Storage Processing Syst **1**(1) 67-74 (Jan 1999), 12T484

Silver-based reflective coatings for micromachined optical filters, J Micromech Microeng **9**(2) 162-165 (Jun 1999), 12T497

Multi-scale roughness transfer in cold metal rolling, Trib Int **32**(1) 45-57 (Jan 1999), 12A720

Cuttability investigation of coated carbides, Mat Manuf Processes **14**(4) 559-580 (1999), 12T725

Laser melting of plasma-sprayed copper-ceramic coatings for improved erosion resistance, Wear **231**(1) 102-107 (Jun 1999), 12A795

Deformation of rough line contacts, J Trib **121**(3) 449-454 (Jul 1999), 12A976

3D imaging of surface topography of wear particles found in synovial joints, Wear **230**(2) 184-193 (May 1999), 12A979

Aqueous sol-gel coating of pitch-based graphite fibers for inclusion in aluminum matrix composites, Mat Manuf Processes **14**(4) 489-507 (1999), 12T980

Effect of peak radius on design of W-type donut shaped laser textured surfaces, Wear **230**(2) 118-123 (May 1999), 12A981

Effects of design parameters on bouncing vibrations of a single-dof contact slider and necessary design conditions for perfect contact sliding, J Trib **121**(3) 596-603 (Jul 1999), 12A982

Electrolytic Ni-P-TiO_2 composite layers for the hydrogen electroevolution, Arch Naukio Mat **19**(3) 157-166 (1998), 12T983

Friction and wear behavior and abradability of abradable seal coating, Wear **231**(1) 47-53 (Jun 1999), 12A984

Investigation of the take-off behavior of proximity recording sliders using acoustic emission and phase demodulated interferometry, J Trib **121**(3) 581-586 (Jul 1999), 12A985

Investigations into asperity persistence in heavily loaded contacts, J Trib **121**(3) 441-448 (Jul 1999), 12A986

Magnetron sputtered SnO_2 films on tin probed by slow positron implantation spectroscopy, Acta Phys Polonica A **95**(4) 623-626 (Apr 1999), 12A987

Optimization method for design of subambient pressure shaped rail sliders, J Trib **121**(3) 575-580 (Jul 1999), 12A988

Polypropylene films studied with variable positron beams, Acta Phys Polonica A **95**(4) 496-504 (Apr 1999), 12A989

Predicting traction in web handling, J Trib **121**(3) 618-624 (Jul 1999), 12A990

Spectral analysis for the effect of stylus tip curvature on measuring rough profiles, Wear **230**(2) 194-200 (May 1999), 12A991

Surface damage of poly(methylmethacrylate) under fretting loading, Wear **230**(2) 146-155 (May 1999), 12A992

Surface morphologies and erosion rates of metallic building materials after sandblasting, Wear **230**(2) 156-164 (May 1999), 12A993

Usage of 3D roughness parameters adapted to the experimental simulation of sheet-tool contact during a drawing operation, Trib Int **32**(1) 59-67 (Jan 1999), 12T994

Wear behavior of Pb-Mo-S solid lubricating coatings, Wear **230**(2) 175-183 (May 1999), 12A995

Computer analysis of bouncing vibration and tracking characteristics of a point contact slider model over random disk surfaces, J Trib **121**(3) 587-595 (Jul 1999), 12A996

Simple numerical method for contact analysis of rough surfaces, J Trib **121**(3) 425-432 (Jul 1999), 12A997

Photoelastic measurements and computation of the stress field and contact pressure in a pneumatic lip seal, Trib Int **32**(1) 1-13 (Jan 1999), 12A1005

Ramp-load dynamics of proximity recording air bearing sliders in magnetic hard disk drive, J Trib **121**(3) 560-567 (Jul 1999), 12A1274

292I. Wear monitoring

Tool-life modeling as a stochastic process, Int J Machine Tools Manuf **38**(10-11) 1361-1369 (Oct-Nov 1998), 1A1031

Automatic drill wear measurement using color image processing and artificial neural network, J Japan Soc Precision Eng **64**(7) 1040-1044 (Jul 1998), 2A1030

Development of monitoring system on the diamond tool wear, Int J Machine Tools Manuf **39**(3) 505-515 (Mar 1999), 4A951

Effects of ball surface condition in the micro-scale abrasive wear test, Trib Letters **5**(4) 259-264 (Oct 1998), 4T952

On-line monitoring of tool wear in turning using a Neural Network, Int J Machine Tools Manuf **39**(3) 489-504 (Mar 1999), 4A953

Test results for liquid "damper" seals using a round-hole roughness pattern for the stators, J Trib **121**(1) 42-49 (Jan 1999), 4A954

Tool wear monitoring with wavelet packet transform: Fuzzy clustering method, Wear **219**(2) 145-154 (Sep 1998), 4A955

Association between rates of wear in retrieved acetabular components and the radius of the femoral head, Proc Inst Mech Eng H **212**(H5) 321-326 (1998), 4A1580

Intelligent detection of drill wear, Mech Syst Signal Processing **12**(6) 863-873 (Nov 1998), 6A1095

ANN-fuzzy recognition of tool conditions (Chinese), J Shanghai Jiaotong Univ **32**(12) 24-28 (Dec 1998), 8A917

Roughness due to workpiece wear generated in surface grinding of metals, Trib Int **31**(12) 771-778 (Dec 1998), 9A1035

Monitoring of tool wear states in turning based on wavelet analysis, JSME Int J Ser C **40**(3) 447-453 (Sep 1997), 9A1038

292Y. Computational techniques

Effect of stress state of different tin films on their tribological behavior, J Trib **120**(4) 820-828 (Oct 1998), 2A1015

Simulation of surface pitting due to contact loading, Int J Numer Methods Eng **43**(1) 33-50 (Sep 1998), 2A1031

BE hyper-singular formulation for contact problems using non-conformal discretization, Comput Struct **69**(5) 557-565 (Dec 1998), 3A949

Computational aspects of tribology in metal machining, Proc Inst Mech Eng J: Eng Trib **212**(J4) 307-318 (1998), 4A730

New strategy for the solution of frictional contact problems, Int J Numer Methods Eng **43**(6) 1053-1068 (Nov 1998), 4A956

Analysis of the transient behavior of rotary lip seals-fluid mechanics and bulk deformation, Trib Trans **41**(4) 471-480 (Oct 1998), 5T840

Influence of surface conditions in hot forming determined by ring upsetting: A numerical and experimental investigation, Proc Inst Mech Eng J: Eng Trib **212**(J6) 453-465 (1998), 6T793

Stochastic model of rough surfaces for FE contact analysis, Comput Methods Appl Mech Eng **169**(1-2) 43-59 (Jan 1999), 7A24

Numerical study of polymer surface wear caused by sliding contact, Wear **224**(1) 141-152 (Jan 1999), 7A898

Adaptive control techniques for friction compensation, Mechatronics **9**(2) 125-145 (Mar 1999), 8A390

Application of multi-level multi-integration to contact problems - Part 1: Non-Hertzian contact in rolling bearings, Proc Inst Mech Eng J: Eng Trib **213**(J1) 63-80 (1999), 8A904

Determination of compliance relationships for transversely isotropic hard surface coatings using the FEM, J Trib **121**(2) 416-418 (Apr 1999), 8T908

Algorithm for the matrix-free solution of quasistatic frictional contact problems, Int J Numer Methods Eng **44**(9) 1205-1226 (Mar 1999), 8A918

Computational fluid dynamics comparison to 3D laser anemometer and rotordynamic force measurements for grooved liquid annular seals, J Trib **121**(2) 306-314 (Apr 1999), 8A933

Effect of hard coating properties on substrate stresses under tribological loads, Mat Manuf Processes **14**(2) 243-255 (1999), 9A1029

Numerical study of axisymmetrical process dimension of wear of machine parts recovery by means of thermoplasticity deformation (Russian), Prikl Mekh (Appl Mech) **34**(11) 84-91 (1998), 10A1031

Application of a constitutive model for micro-slip in FE analysis, Comput Methods Appl Mech Eng **170**(1-2) 65-77 (Feb 1999), 10A1034

Numerical treatment of local variables in 3D frictional contact problems using the BEM, Comput Struct **71**(4) 383-395 (May 1999), 10A1035

Finite element analysis on local yield map and critical maximum contact pressure for yielding in hard coating with an interlayer under sliding contact, Trib Int **32**(1) 25-32 (Jan 1999), 12T39

Analysis of the friction-induced self-excited vibration of a contact-recording head slider supported by a cantilever beam, J Info Storage Processing Syst **1**(1) 59-65 (Jan 1999), 12A458

Flattening of random rough surfaces in metal-forming processes, J Trib **121**(3) 433-440 (Jul 1999), 12A722

Computer analysis of bouncing vibration and tracking characteristics of a point contact slider model over random disk surfaces, J Trib **121**(3) 587-595 (Jul 1999), 12A996

Simple numerical method for contact analysis of rough surfaces, J Trib **121**(3) 425-432 (Jul 1999), 12A997

Photoelastic measurements and computation of the stress field and contact pressure in a pneumatic lip seal, Trib Int **32**(1) 1-13 (Jan 1999), 12A1005

292Z. Experimental techniques

Complementary relationship between the dynamic and thermal conditions of the friction trio traveller-ring-yarn (TRY) and the degree of wear of its elements, Fibres Textiles in E Europe **6**(1) 36-43 (Jan-Mar 1998), 2A1005

Effect of selected dicarboxylic acid esters on wear of the steel-on-steel mating elements (Polish), Trib **29**(3) 353-366 (1998), 2A1014

FEM simulation of a friction testing method based on a combined forward conical can-backward straight can extrusion, J Trib **120**(4) 716-723 (Oct 1998), 2A1032

Friction force microscopy measurements: Normal and torsional spring constants for V-shaped cantilevers, J Trib **120**(4) 814-819 (Oct 1998), 2A1033

Stick-slip motion in the atomic force microscope, Trib Letters **5**(2-3) 155-160 (Aug 1998), 3T947

Investigation of the recoil implantation for thin layer activation and wear measurements, Wear **219**(1) 78-83 (Aug 1998), 3A950

New optical technique for roughness measurement on moving surface, Trib Int **31**(5) 281-287 (May 1998), 3A951

Pole tip recession studies of thin-film rigid disk head sliders - I: Mechanisms of pole tip recession growth, Wear **219**(1) 16-29 (Aug 1998), 3A952

Preparation of mica surfaces for enhanced resolution and cleanliness in the surface forces apparatus, Trib Letters **5**(2-3) 151-153 (Aug 1998), 3T953

Wear studies of tungsten carbide cutting tools using micro-beam techniques, J Trib **121**(1) 177-184 (Jan 1999), 4A938

Effects of ball surface condition in the micro-scale abrasive wear test, Trib Letters **5**(4) 259-264 (Oct 1998), 4T952

Improved method for the measurement of asperity compliance of magnetic tapes, J Trib **121**(1) 121-127 (Jan 1999), 4A957

Development of 1232°C (2250°F) erosion and impact tests for thermal barrier coatings, Trib Trans **41**(4) 399-410 (Oct 1998), 5T831

Correlation study among various CSS testers, Trib Trans **41**(4) 525-530 (Oct 1998), 5A841

In situ wear measuring technique in engine cylinders, Trib Trans **41**(4) 579-585 (Oct 1998), 5A842

On-line measurement of damping coefficients with the help of a microcomputer, Trib Int **31**(6) 339-343 (Jun 1998), 5T843

Tribological properties of the heterocyclic compound containing S, N, O, and B as additive in liquid paraffin, Wear **224**(1) 68-72 (Jan 1999), 7A1161

Influence of pad pivot friction on tilting-pad journal bearing measurements - Part II: Dynamic coefficients, Trib Trans **42**(1) 250-256 (Jan 1999), 8T890

Rolling contact testing of vapor phase lubricants - Part III: Surface analysis, Trib Trans **42**(1) 1-9 (Jan 1999), 8T912

Rolling contact testing of vapor phase lubricants - Part IV: Diffusion mechanisms, Trib Trans **42**(1) 10-20 (Jan 1999), 8T913

Substitution of inexpensive bench tests for the FZG scuffing test - Part I: Calculations, Trib Trans **42**(1) 63-70 (Jan 1999), 8A919

Substitution of inexpensive bench tests for the FZG scuffing test - Part II: Oil tests, Trib Trans **42**(1) 71-75 (Jan 1999), 8A920

Transducer for simultaneously measuring forces normal to and parallel to surfaces, J Trib **121**(2) 359-362 (Apr 1999), 8A921

Study on tooth surface strength of spur gears - Part I: Experimental procedure and determination of tooth surface strength, Trib Trans **42**(1) 76-83 (Jan 1999), 8T923

Computational fluid dynamics comparison to 3D laser anemometer and rotordynamic force measurements for grooved liquid annular seals, J Trib **121**(2) 306-314 (Apr 1999), 8A933

Experimental force coefficients for a two-bladed Labyrinth seal and a four-pocket damper seal, J Trib **121**(2) 370-376 (Apr 1999), 8A934

New method in acoustic health monitoring in mechanical seals, Trib Trans **42**(1) 46-52 (Jan 1999), 8A936

Evaluation of several space lubricants using a vacuum four-ball tribometer, Trib Trans **42**(2) 317-323 (Apr 1999), 11T983

Particle size determination of (functionalized) colloidal calcium carbonate by small angle x-ray scattering relation with antiwear properties, Trib Trans **42**(2) 296-302 (Apr 1999), 11T984

Time dependence of liquid accumulation on flying sliders: Fly stiction, J Info Storage Processing Syst **1**(1) 33-38 (Jan 1999), 12T962

Spectral analysis for the effect of stylus tip curvature on measuring rough profiles, Wear **230**(2) 194-200 (May 1999), 12A991

Application of acoustic emission method to determine the state of friction process of metal collaborating pairs: Preliminary results, Arch Budowy Maszyn **46**(1) 79-84 (1999), 12A998

Diagnosis of rolling bearing by measuring time interval of AE generation, J Trib **121**(3) 468-472 (Jul 1999), 12A999

Excitation frequency effects on the stiffness and damping coefficients of a five-pad tilting pad journal bearing, J Trib **121**(3) 517-522 (Jul 1999), 12A1000

New method to measure wear cracks by using reflected light intensity, Wear **231**(1) 153-157 (Jun 1999), 12A1001

Macroscale and microscale tribological studies of molecularly thick boundary layers of perfluoropolyether lubricants for magnetic thin-film rigid disks, J Info Storage Processing Syst **1**(1) 1-21 (Jan 1999), 12A1263

294. MACHINE ELEMENTS

294B. Belts, chains, and cables

Experimental and FE studies of the running of V-ribbed belts in pulley grooves, Proc Inst Mech Eng C **212**(C5) 343-354 (1998), 3A954

V-ribbed belt design, wear and traction capacity, Proc Inst Mech Eng D **212**(D4) 333-344 (1998), 3A955

Fatigue damage prediction in synchronous belts, J Mech Des **121**(2) 280-288 (Jun 1999), 9A822

Tribological aspects of driving belts exploitation in foil packing machines (Polish), Trib **30**(1) 87-95 (1999), 11A985

Diagnosis of rolling bearing by measuring time interval of AE generation, J Trib **121**(3) 468-472 (Jul 1999), 12A999

Improvements in belt tension setting procedures on internal combustion engines, Proc Inst Mech Eng D **213**(D2) 119-126 (1999), 12A1002

294C. Cams

Size optimization of cam mechanisms with translating roller followers, Proc Inst Mech Eng C **212**(C5) 381-386 (1998), 3A956

Curvature analysis of spatial cam-follower mechanisms, Mech Machine Theory **34**(2) 319-339 (Feb 1999), 4A958

Synthesis of the internal parallel cam mechanism, Proc Inst Mech Eng C **212**(C7) 577-585 (1998), 5A844

Geometric design of roller gear cam reducers, J Mech Des **121**(1) 172-175 (Mar 1999), 7A907

Synthesis of stationary cams, J Mech Des **121**(1) 169-172 (Mar 1999), 7A916

Axode synthesis of cam-follower mechanisms with hyperboloidal rollers, JSME Int J Ser C **41**(3) 460-469 (Sep 1998), 9A1039

New method of torque compensation for high speed indexing cam mechanism, J Mech Des **121**(2) 319-323 (Jun 1999), 9A1040

294D. Springs, dampers

Power transmission system modeling, Proc Inst Mech Eng C **212**(C6) 497-508 (1998), 3A427

Achieving an arbitrary spatial stiffness with springs connected in parallel, J Mech Des **120**(4) 520-526 (Dec 1998), 3A957

Mathematical Modeling for Design of Machine Components (TK-Integrated) (Prentice Hall, Upper Saddle River, NJ, 1999) 4R8

Maximum principle tensile stress and fatigue crack origin for compression springs, Int J Mech Sci **41**(3) 357-370 (Mar 1999), 4A959

Reliability, Stress Analysis, Failure Prevention Aspects of Adhesive Bolted Joints, Rubber Components, Composite Springs (ASME, New York, 1998) 6N25

Vibration control of a flexible structure using ER dampers, J Dyn Syst Meas Control **121**(1) 134-138 (Mar 1999), 6A412

Characteristics of a three-state switchable damper, J Low Frequency Noise Vib **17**(2) 85-96 (1998), 6A1096

Efficient numerical method for predicting the natural frequencies of cylindrical helical springs, Int J Mech Sci **41**(8) 919-939 (Aug 1999), 7A147
Experimental characterization of damping force in shock absorbers with constant velocity excitation, Vehicle Syst Dyn **30**(6) 431-442 (Dec 1998), 7A201
New lateral vibration damper using leaf springs, J Vib Acoust **121**(3) 343-350 (Jul 1999), 10A1036

294E. Couplings

General approach for determining dynamic forces in spur gears, J Mech Des **120**(4) 593-598 (Dec 1998), 3A958
Analytical study of the effect of a circumferential feeding groove on the unbalance response of a rigid rotor in a squeeze film damper, Trib Int **31**(5) 265-270 (May 1998), 3T1209
Brakes and clutches using ER fluids, Mechatronics **8**(7) 719-726 (Oct 1998), 4A960
Transmission error and lateral load transferred between drive and driven shafts connected by a helical beam coupling (Japanese), J Japan Soc Precision Eng **65**(4) 549-553 (Apr 1999), 11A986
Thermal characteristics of a wet clutch, J Trib **121**(3) 610-617 (Jul 1999), 12A978

294F. Brakes

Design of a lightweight automotive brake disc using FE and Taguchi techniques, Proc Inst Mech Eng D **212**(D4) 245-254 (1998), 3A959
Brakes and clutches using ER fluids, Mechatronics **8**(7) 719-726 (Oct 1998), 4A960
Development of a wheel mounted disc brake for a high-speed train, Proc Inst Mech Eng F **212**(F2) 113-121 (1998), 5A845
Dynamic behavior of a precession rotor having impact and rub with stopper (Chinese), J Tsinghua Univ Sci Tech **38**(8) 104-106 (Aug 1998), 6A202
Study on disc brake squeal using closed-loop coupling model (Chinese), J Tsinghua Univ Sci Tech **38**(8) 88-91 (Aug 1998), 6A1097
Mechanisms of drum brake oscillation and squeal, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 18-24 (Dec 1998), 8A922
Neuro-fuzzy controller design of the anti-lock braking system, JSME Int J Ser C **41**(4) 836-843 (Dec 1998), 9A1041
Self-excited oscillations of disk brakes, Machine Dyn Prob **20** 231-243 (1998), 9T1042

294G. Gears, gear trains, drives

Remarks on diagnosis-oriented modeling of power unit gears, Machine Dyn Prob **19** 75-86 (1998), 1T451
Study on the forging of external spur gears: Upper-bound analyses and experiments, Int J Machine Tools Manuf **38**(10-11) 1193-1208 (Oct-Nov 1998), 1A766
Application of optical cutting method to measurement of tooth-profile error of minute module gears - 2nd Report: Measurements of total profile error, J Japan Soc Precision Eng **64**(6) 866-870 (Jun 1998), 1T815
Increasing the bending fatigue resistance of spur gear teeth using a presetting process, Int J Fatigue **20**(7) 537-542 (Aug 1998), 1A842
Drive train design of gear coupled manipulators, J Robotic Syst **15**(8) 477-486 (Aug 1998), 1A1032
Duplex spread blade method for cutting hypoid gears with modified tooth surface, J Mech Des **120**(3) 441-447 (Sep 1998), 1A1033
Identification of gear dynamic loads on the basis of measurements of the gear housing vibrations, Machine Dyn Prob **19** 87-93 (1998), 1A1034
Identification of the machine settings of real hypoid gear tooth surfaces, J Mech Des **120**(3) 429-440 (Sep 1998), 1A1035
Modeling of the backlash hysteresis nonlinearity, J Mech Des **120**(3) 408-413 (Sep 1998), 1A1036
Progress outline of gear tooth profile modification (Chinese), J Shanghai Jiaotong Univ **32**(5) 133-137 (May 1998), 1A1037
Unified approach to the assembly condition of epicyclic gears, J Mech Des **120**(3) 448-452 (Sep 1998), 1A1038
ZK-type dual-lead worm and worm gear drives: Geometry, J Mech Des **120**(3) 414-421 (Sep 1998), 1A1039
ZK-type dual-lead worm and worm gear drives: Contact teeth, contact ratios and kinematic errors, J Mech Des **120**(3) 422-428 (Sep 1998), 1A1040
Experimental analysis of propagation of fatigue crack on gears, Exp Mech **38**(3) 226-230 (Sep 1998), 2A825
Surface improvement and durability of case-carburized gear - 2nd Report: Effects of shot peening and barreling processes, Int J Japan Soc Precision Eng **32**(2) 104-109 (Jun 1998), 2T1026
Stresses and deformations in overlapped diesel engine crankshafts - Part 1: Experimental results, Proc Inst Mech Eng D **212**(D3) 187-204 (1998), 2A1034
Enhancement and modification of vibration signals of malfunction gearboxes (Chinese), J Xi'an Jiaotong Univ **32**(9) 72-75 (1998), 3A185
Modeling and parameter identification of harmonic drive systems, J Dyn Syst Meas Control **120**(4) 439-444 (Dec 1998), 3A428
Effect of CBN grinding on the bending strength of carburized gears, J Mech Des **120**(4) 606-611 (Dec 1998), 3A709
Experimental results of the fatigue crack growth in a gear tooth root, Int J Fatigue **20**(9) 669-675 (Oct 1998), 3A731
General approach for determining dynamic forces in spur gears, J Mech Des **120**(4) 593-598 (Dec 1998), 3A958
Accurate tooth stiffness of spiral bevel gear teeth by the finite strip method, J Mech Des **120(4)** 599-605 (Dec 1998), 3A960
Computerized design and generation of modified spiroid worm-gear drive with low transmission errors and stabilized bearing contact, Comput Methods Appl Mech Eng **162**(1-4) 187-201 (Aug 1998), 3A961
Finite element analysis of automobile gearbox based on the thermal network analysis (Chinese), J Huazhong Univ Sci Tech **26**(6) 84-86 (Jun 1998), 3A962
Selection of a most efficient clutching sequence associated with automatic transmission mechanisms, J Mech Des **120**(4) 514-519 (Dec 1998), 3A963
Analysis of tooth contact and load distribution of helical gears with crossed axes, Mech Machine Theory **34**(1) 41-57 (Jan 1999), 4A961
Automotive timing belt life laws and a user design guide, Proc Inst Mech Eng D **212**(D5) 409-419 (1998), 4A962
Axes of meshing and their application in theory of gearing, Comput Methods Appl Mech Eng **163**(1-4) 293-310 (Sep 1998), 4A963
Computerized simulation of meshing of conventional helical involute gears and modification of geometry, Mech Machine Theory **34**(1) 123-147 (Jan 1999), 4A964
Determination of the ISO tooth form factor for involute spur and helical gears, Mech Machine Theory **34**(1) 89-103 (Jan 1999), 4A965
Effect of regrinding bearing surfaces on stresses in overlapped crankshafts, J Strain Anal Eng Des **33**(4) 305-313 (Jul 1998), 4A966
Finite element analysis of cylindrical gears, Commun Numer Methods Eng **14**(10) 963-975 (Oct 1998), 4A967
Use of differential drives for overcoming transmission nonlinearities, J Robotic Syst **15**(11) 641-660 (Nov 1998), 4A968
Calculation and analysis of a mode for helical gear based on FEM (Chinese), J Huazhong Univ Sci Tech **26**(11) 75-77 (Nov 1998), 5A846
Effect on loading behavior of helical gear by deformation of bearing systems (Chinese), J Huazhong Univ Sci Tech **26**(11) 72-74 (Nov 1998), 5A847
Gearing of helical screw compressor rotors, Proc Inst Mech Eng C **212**(C7) 587-594 (1998), 5A848
Power-closed mechanical transmission gear life test stand (Chinese), J Beijing IT **18**(3) 302-306 (Jun 1998), 5A849
Stochastic vibration model of gear transmission systems considering speed-dependent random errors, Nonlinear Dyn **17**(2) 187-203 (Oct 1998), 5A850
Expansion algorithm for packing problem of the planar constrained circle set (Chinese), J Huazhong Univ Sci Tech **26**(10) 45-47 (Oct 1998), 6A1098
Geometry simulation of hard skiving process of spiral bevel gears (Chinese), J Tsinghua Univ Sci Tech **38**(8) 9-11 (Aug 1998), 6A1099
Kinematic and dynamic analysis of crowned spur gear drive, Comput Methods Appl Mech Eng **167**(1-2) 109-118 (Dec 1998), 6A1100
Method for precision calibration of rotary scale errors and precision determination of gear tooth index errors, Mech Syst Signal Processing **12**(6) 723-752 (Nov 1998), 6T1101
Kinematic considerations for reducing the circulating power effects in gear-type continuously variable transmissions, Proc Inst Mech Eng D **212**(D6) 463-478 (1998), 6A1111
Effect of involute contact ratio on spur gear dynamics, J Mech Des **121**(1) 112-118 (Mar 1999), 7A196
Control of low velocity friction and gear backlash in a machine tool feed drive system, Mechatronics **9**(1) 33-52 (Feb 1999), 7A394
Determination of principal curvatures and contact ellipse for profile crowned helical gears, J Mech Des **121**(1) 107-111 (Mar 1999), 7A908
Load analysis with varying mesh stiffness, Comput Struct **70**(3) 273-280 (Feb 1999), 7A909
New approach to solving the inverse problem for compound gear trains, J Mech Des **121**(1) 98-106 (Mar 1999), 7A910
Study on tooth surface strength of spur gears - Part I: Experimental procedure and determination of tooth surface strength, Trib Trans **42**(1) 76-83 (Jan 1999), 8T923
Improving cycling performance with large sprockets, Sports Eng **1**(2) 107-113 (Nov 1998), 8A1626
Chaotic behavior in gear system, JSME Int J Ser C **41**(3) 577-582 (Sep 1998), 9A1043
Computer based approach for evaluation of operating performances of bevel and hypoid gears, JSME Int J Ser C **40**(4) 749-758 (Dec 1997), 9A1044
Dynamical problems in a system with gears, Machine Dyn Prob **20** 139-147 (1998), 9T1045
Effect of involute tip relief on dynamic response of spur gear pairs, J Mech Des **121**(2) 313-315 (Jun 1999), 9A1046
Engineering design of harmonic drive gearings toward quality criteria, Machine Dyn Prob **21** 7-159 (1998), 9A1047
Estimation of critical system parameters that affect orbit motor performance: Combining simulation and experiments, J Manuf Sci Eng **121**(2) 300-306 (May 1999), 9A1048
Experimental verification on gain scheduled H_∞ robust control of a magnetic bearing, JSME Int J Ser C **40**(4) 561-569 (Dec 1997), 9A1049
Extension of the Euler-Savary equation to hypoid gears, JSME Int J Ser C **42**(1) 218-224 (Mar 1999), 9A1050
Hierarchical decomposition scheme for the topological synthesis of articulated gear mechanisms, J Mech Des **121**(2) 256-263 (Jun 1999), 9A1051
Ideal tooth profiles of conical-external and -internal gears meshing with cylindrical-involute gears over the entire tooth width, JSME Int J Ser C **41**(4) 901-911 (Dec 1998), 9A1052
Limitation of gear tooth surfaces by envelopes to contact lines and edge of regression, Mech Machine Theory **34**(6) 889-902 (Aug 1999), 9A1053
Methodology for systematic synthesis of two-dof gear differentials, JSME Int J Ser C **41**(2) 299-306 (Jun 1998), 9A1054
Noise and life of helical timing belt drives, J Mech Des **121**(2) 274-279 (Jun 1999), 9A1055
State of the art of magnetic bearings: Overview of magnetic bearing research and applications, JSME Int J Ser C **40**(4) 553-560 (Dec 1997), 9A1056
Systematic enumeration of epicyclic gear mechanisms for automotives, JSME Int J Ser C **42**(1) 225-233 (Mar 1999), 9A1057
Computerized design, generation and simulation of meshing of a spiroid worm-gear drive with a ground double-crowned worm, J Mech Des **121**(2) 264-273 (Jun 1999), 9A1068
Kinematics parametric method to generate new tooth profiles of gear sets with skew axes, Mech Machine Theory **34**(6) 857-876 (Aug 1999), 9A1080
Study on torsional vibration problem of mine host gear-transmission system, Chinese J Mech Eng **11**(3) 239-248 (Sep 1998), 10A234
Helicopter gearbox fault detection: A neural network based approach, J Vib Acoust **121**(3) 265-272 (Jul 1999), 10A472
Effect of fiber orientation and distribution on the tooth stiffness of a polymer composite gear, J Reinforced Plastics Composites **18**(5) 454-463 (1999), 10A649
Forging and heading of hollow spur gear forms: An analysis and some experiments, Int J Mech Sci **41**(10) 1159-1189 (Oct 1999), 10A797
Energy cepstrum contribution for the diagnostic of complex gears (French), Rev Francaise Mec **0**(1) 3-7 (Mar 1999), 10A1037
Error processing method of cycloidal gear measurement using 3D coordinates measuring machine, Chinese J Mech Eng **11**(3) 196-200 (Sep 1998), 10A1038
Fundamental analysis of linear type trochoidal gear - 2nd report: Motion principle for roller rack type trochoidal gear (Japanese), J Japan Soc Precision Eng **65**(3) 428-432 (Mar 1999), 10A1039
Vibration control and experiment of three-ring reducer, Chinese J Mech Eng **11**(4) 319-325 (Dec 1998), 10A1040
Finite element modeling of local contact conditions in gear teeth, J Strain Anal Eng Des **34**(2) 129-142 (Mar 1999), 11A33
Design considerations for rotating laminated metal-matrix-composite shafts, Composites Sci Tech **59**(6) 883-896 (May 1999), 11A526
Increasing the bending fatigue strength of carburized spur gear teeth by presetting, Int J Fatigue **21**(6) 549-556 (Jul 1999), 11A742
Comparison of experimental assessment methods to estimate the strength of gear teeth, Proc Inst Mech Eng C **213**(C3) 291-301 (1999), 11A762
Design of spiroid hobs, J Mat Processing Tech **88**(1-3) 208-215 (Apr 1999), 11A987
Numerical methods for the optimization of specific sliding, stress concentration and fatigue life of gears, Int J Fatigue **21**(5) 465-474 (May 1999), 11A988
Symmetrically piecewise linear oscillator: Design and measurement, Proc Inst Mech Eng C **213**(C3) 241-249 (1999), 11A989
Kinematics of tripode transmissions: A new approach, Multibody Syst Dyn **3**(1) 85-105 (Feb 1999), 11A1003

294H. Bearings

Elastohydrodynamic analysis of one-layered journal bearings, Proc Inst Mech Eng J: Eng Trib **212**(J3) 193-205 (1998), 1A1041
Nonlinear analysis of flexibly supported finite turbulent flow oil journal bearings, Appl Mech Eng **2**(4) 557-568 (1997), 1A1042
Rapid and globally convergent method for dynamically loaded journal bearing design, Proc Inst Mech Eng J: Eng Trib **212**(J3) 207-214 (1998), 1T1043
Study on fluid-static bearing using water as pressure fluid: Defining of design rule of fluid element (Japanese), J Japan Soc Precision Eng **64**(6) 851-855 (Jun 1998), 1A1044
Nonlinear analysis of hydrodynamical bearings in a vertical shaft (Spanish), J Brazilian Soc Mech Sci **20**(2) 244-262 (Jun 1998), 1A1272
Rotordynamic modeling of a hydrodynamic pivoted-pad thrust bearing, Trib Int **31**(4) 175-181 (Apr 1998), 1A1274
Calculation of the fatigue life of regenerated large overall dimensions rolling bearings, Trib **29**(1) 39-50 (1998), 2A836
Theoretical and experimental dynamic characteristics of a highly preloaded three-lobe journal bearing, Trib Trans **41**(3) 392-398 (Jul 1998), 2T1255
Vibration analysis of statically indeterminate rotors with hydrodynamic bearings, J Trib **120**(4) 781-788 (Oct 1998), 2A1256
Application of periodic time-varying autoregressive models to the detection of bearing faults, Proc Inst Mech Eng C **212**(C6) 417-428 (1998), 3A201
Analytical study of plate foil journal gas bearings (Chinese), J Xi'an Jiaotong Univ **32**(9) 56-59 (1998), 3A964
Isoperimetric problem of profiling of the optimum clearance of an infinite plane slider bearing, J Appl Math Mech **62**(2) 207-216 (1998), 3A965
Mechanical characteristics of thrust magnetic bearing (Chinese), J Xi'an Jiaotong Univ **32**(8) 43-47 (1998), 3A966
Surface slip of lubrication properties for thrust bearing with elasto-plastic behavior (Chinese), J Xi'an Jiaotong Univ **32**(8) 39-42 (1998), 3A967
Mathematical Modeling for Design of Machine Components (TK-Integrated) (Prentice Hall, Upper Saddle River, NJ, 1999) 4R8
Hydrodynamic Lubrication: Bearings and Thrust Bearings (Elsevier Sci BV, Netherlands, 1997) 4R22
Finite element analysis of whirl speeds for rotor-bearing systems with internal damping, Mech Syst Signal Processing **12**(5) 599-610 (Sep 1998), 4T174
Optimal control of a magnetic bearing without bias flux using finite voltage, Optimal Control Appl Methods **19**(4) 227-246 (Jul-Aug 1998), 4A424
Experimental evaluation of stiffness and damping of slider-air bearings in hard disk drives, J Trib **121**(1) 102-107 (Jan 1999), 4A892
Lundberg-Palmgren fatigue theory: Considerations of failure stress and stressed volume, J Trib **121**(1) 85-89 (Jan 1999), 4A940
Graphite particles reinforced ZA-27 alloy composite materials for journal bearing applications, Wear **219**(2) 162-168 (Sep 1998), 4A969
Rotordynamic evaluation of a roughened-land hybrid bearing, J Trib **121**(1) 133-138 (Jan 1999), 4A970
Parametric investigation of the steady-state response of a mechanical seal with two flexibly mounted rotors, J Trib **121**(1) 69-76 (Jan 1999), 4A971
Wear-resistant reliable life of sliding thrust bearings in water (Chinese), J Beijing IT **18**(2) 139-144 (Apr 1998), 5A663
Causes and effects of roller skewing in cylindrical roller bearings, Trib Trans **41**(4) 572-578 (Oct 1998), 5T817
Design and operating characteristics of high-speed, small-bore ball bearings, Trib Trans **41**(4) 423-434 (Oct 1998), 5A851
Experimental investigations of porous bearings under vertical sinusoidally fluctuating loads, Trib Int **31**(6) 325-330 (Jun 1998), 5T852
Influence of cross-film viscosity variation on conduction effects in journal bearings, Trib Trans **41**(4) 513-518 (Oct 1998), 5T853
Modeling aspects of a rate-controlled seizure in an unloaded journal bearing, Trib Trans **41**(4) 481-488 (Oct 1998), 5A1152
Study of thermal boundary conditions for a plain journal bearing, Trib Int **31**(6) 289-296 (Jun 1998), 5T1155
Advanced LIGA technology for the integration of an electrostatically controlled bearing in a wobble micromotor, J Microelectromechanical Syst **7**(4) 423-427 (Dec 1998), 6A433
Objective machinery fault diagnosis using fuzzy logic, Mech Syst Signal Processing **12**(6) 855-862 (Nov 1998), 6A452
Transient rolling behavior of a slider supported by two rollers, Trib Int **31**(7) 377-384 (Jul 1998), 6T1071
Application of neural networks to the dynamic analysis of nonlinear hysteretic behavior of high

damping rubber bearings (Japanese), Proc JSCE **605**(I-45) 29-36 (Oct 1998), 6A1102
Magnetic thrust bearing concepts: Tests and analyses, J Intelligent Mat Syst Struct **9**(2) 81-86 (Feb 1998), 6A1103
Porous aerostatic bearings: An updated review, Wear **222**(2) 69-73 (Nov 1998), 6T1104
Adaptive prognostics for rolling element bearing condition, Mech Syst Signal Processing **13**(1) 103-113 (Jan 1999), 7A399
Intrinsic control of coaxiality for a pair of hyperstatic bearings (French), Rev Francaise Mec **0**(4) 297-311 (Dec 1998), 7A911
Precision magnetic bearing - 3rd Report: Displacement estimation by using flux density and precision positioning (Japanese), J Japan Soc Precision Eng **64**(12) 1779-1784 (Dec 1998), 7A912
Simulating roller-cage pocket friction in a tapered roller bearing, European J Mech Eng **43**(4) 189-194 (1998), 7A913
Mathematical model for gas bearing with holes of tangential supply, J Trib **121**(2) 301-305 (Apr 1999), 8A854
Bearing life calculation in oscillatory applications, Trib Trans **42**(1) 136-143 (Jan 1999), 8A924
Comparison of predictions with test results for rotordynamic coefficients of a four-pocket gas damper seal, J Trib **121**(2) 363-369 (Apr 1999), 8A925
Data fitted bearing life prediction model for variable operating conditions, Trib Trans **42**(1) 241-249 (Jan 1999), 8T926
Determination of contact stress for composite sliding bearings, Strojnicky Casopis **50**(1) 52-57 (1999), 8A927
Experimental study of plate-foil journal gas bearings (Chinese), J Xi'an Jiaotong Univ **33**(3) 60-63 (1999), 8A928
Frequency effects on the TEHD behavior of a tilting-pad journal bearing under dynamic loading, J Trib **121**(2) 321-326 (Apr 1999), 8A929
Stability of gas bearing sliders for large bearing number: Convective instability of the tapered slider, Trib Trans **42**(1) 216-222 (Jan 1999), 8A930
Static rolling bearing models in a CAD environment for the study of complex mechanisms - Part I: Rolling bearing model, J Trib **121**(2) 205-214 (Apr 1999), 8A931
Static rolling bearing models in a CAD environment for the study of complex mechanisms - Part II: Complete assembly model, J Trib **121**(2) 215-223 (Apr 1999), 8A932
Study of a journal bearing lubricated by fluids with couple stress considering the elasticity of the liner, Wear **224**(2) 194-201 (Feb 1999), 8A1263
Stiffness and damping evaluation of air bearing sliders and new designs with high damping, J Trib **121**(2) 341-347 (Apr 1999), 8A1270
Detection of self-aligning roller bearing fault by asynchronous adaptive noise cancelling technology, JSME Int J Ser C **42**(1) 33-43 (Mar 1999), 9A494
Air hammer phenomenon in rotors supported in elastically mounted gas bearings, Machine Dyn Prob **20** 101-112 (1998), 9T1058
Study of hall element method for ball motion in a ball bearing, JSME Int J Ser C **41**(3) 443-449 (Sep 1998), 9A1059
Development of active squeeze air bearing using oscillation of piezoelectric actuators - 1st report: Basic study with prototype model (Japanese), J Japan Soc Precision Eng **65**(3) 438-442 (Mar 1999), 10A1041
Fault tolerant magnetic bearings, J Eng Gas Turbines Power **121**(3) 504-508 (Jul 1999), 10A1042
Limiting speeds and operating temperatures of fixed preload large bore angular contact ball bearings for machine tools, Proc Inst Mech Eng J: Eng Trib **213**(J2) 85-93 (1999), 10T1043
Passive magnetic bearings: The conic-shaped bearing, Proc Inst Mech Eng J: Eng Trib **213**(J2) 151-161 (1999), 10T1044
Three-dimensional FE analysis of laminated rubber bearings using the selective integration method, JSME Int J Ser A **42**(1) 40-48 (Jan 1999), 10A1045
Design of hydrodynamically lubricated journal bearings against yield, J Strain Anal Eng Des **34**(3) 165-173 (May 1999), 11A990
Dynamic prognostic prediction of defect propagation on rolling element bearings, Trib Trans **42**(2) 385-392 (Apr 1999), 11A991
Model to calculate evaporative oil loss in spacecraft mechanisms, Trib Trans **42**(2) 282-288 (Apr 1999), 11A992
On-line identification of squeeze-film dynamics of multi-mode rotor-bearing system, Comput Assisted Mech Eng Sci **5**(3) 253-266 (1998), 11A993
Purposes and possibilities of the use of correction in roller bearings (Polish), Trib **30**(1) 55-70 (1999), 11A994
Study on an aerostatic thrust bearing with displacement compensation employing diaphragm: Static Characteristics (Japanese), J Japan Soc Precision Eng **65**(4) 554-558 (Apr 1999), 11A995
Figures of merit for dynamically unloaded air bearing sliders, Trib Trans **42**(2) 407-412 (Apr 1999), 11T1328
Development of an isothermal journal bearing employing heat-pie cooling technology, Trib Trans **42**(2) 401-406 (Apr 1999), 11A1437
Numerical and experimental investigation of 50% subambient pressure tripad sliders, J Info Storage Processing Syst **1**(1) 39-44 (Jan 1999), 12T452
Dynamics of suspension-slider-air-bearing systems: Experimental study, IEEE/ASME Trans Mechatronics **3**(3) 210-217 (Sep 1998), 12A467
Influence of heat generation in the contact zone on bearing fatigue behavior, J Trib **121**(3) 462-467 (Jul 1999), 12A977
Excitation frequency effects on the stiffness and damping coefficients of a five-pad tilting pad journal bearing, J Trib **121**(3) 517-522 (Jul 1999), 12A1000
Three-dimensional conservative model for self-lubricated porous journal bearings in a hydrodynamic steady state, J Trib **121**(3) 529-537 (Jul 1999), 12A1269
Theoretical prediction of ramp loading-unloading process in hard disk drives, J Trib **121**(3) 568-574 (Jul 1999), 12A1275

294I. Gaskets, seals, etc

Machine vision based inspection of oil seals, J Manuf Syst **17**(3) 159-166 (1998), 1A505
Wear of brush seals: Background and new modeling approach, Trib Trans **41**(3) 368-374 (Jul 1998), 2T1008
Comparison of experimental rotordynamic coefficients and leakage characteristics between hole-pattern gas damper seals and a honeycomb seal, J Eng Gas Turbines Power **120**(4) 778-783 (Oct 1998), 2A1035
Parametric investigation of the steady-state response of a mechanical seal with two flexibly mounted rotors, J Trib **121**(1) 69-76 (Jan 1999), 4A971
Performance study of a back-depression mechanical dry gas seal, Proc Inst Mech Eng J: Eng Trib **212**(J4) 279-290 (1998), 4T972
Thermal elastohydrodynamic model of a radial lip seal - Part I: Analysis and base results, J Trib **121**(1) 1-10 (Jan 1999), 4A1291
Break-in liner wear and piston ring assembly friction in a spark-ignited engine, Trib Trans **41**(4) 497-504 (Oct 1998), 5T825
Fluid temperature and film coefficient prediction and measurement in mechanical face seals: Numerical results, Trib Trans **41**(4) 459-470 (Oct 1998), 5A833
Static sealing performance of gas mechanical seals including surface roughness and rarefaction effects, Trib Trans **41**(4) 531-536 (Oct 1998), 5A838
Analysis of the transient behavior of rotary lip seals-fluid mechanics and bulk deformation, Trib Trans **41**(4) 471-480 (Oct 1998), 5T840
Effects of compression, staging, and braid angle on braided rope seal performance, J Propulsion Power **14**(6) 934-940 (Nov-Dec 1998), 5A854
Experimental rotordynamic coefficient results for (a) a labyrinth seal with and without shunt injection and (b) a honeycomb seal, J Eng Gas Turbines Power **121**(1) 153-159 (Jan 1999), 5A855
Fluid temperature and film coefficient prediction and measurement in mechanical face seals: Experimental results, Trib Trans **41**(4) 411-422 (Oct 1998), 5A856
Quasi-2D method for the rotordynamic analysis of centered labyrinth liquid seals, J Eng Gas Turbines Power **121**(1) 144-152 (Jan 1999), 5A857
Test facility for the measurement of torques at the shaft to seal interface in brush seals, J Eng Gas Turbines Power **121**(1) 160-166 (Jan 1999), 5A858
Finite element thermohydrodynamic analysis of two-lobe oil seals used in high pressure centrifugal compressors, Trib Trans **41**(4) 554-562 (Oct 1998), 5T1154
Reliability, Stress Analysis, Failure Prevention Aspects of Adhesive Bolted Joints, Rubber Components, Composite Springs (ASME, New York, 1998) 6N25
Effect of misalignment on the performance of U-type lip seal, Wear **223**(1-2) 139-142 (Dec 1998), 6A1105
Design of an axial mechanical gas seal with self-acting lift geometry, European J Mech Eng **43**(4) 195-203 (1998), 7A914
Computational fluid dynamics comparison to 3D laser anemometer and rotordynamic force measurements for grooved liquid annular seals, J Trib **121**(2) 306-314 (Apr 1999), 8A933
Experimental force coefficients for a two-bladed Labyrinth seal and a four-pocket damper seal, J Trib **121**(2) 370-376 (Apr 1999), 8A934
Meniscus shape and splashing of magnetic fluid in a magnetic fluid seal, J Trib **121**(2) 377-383 (Apr 1999), 8A935
New method in acoustic health monitoring in mechanical seals, Trib Trans **42**(1) 46-52 (Jan 1999), 8A936
Analysis of the piston ring lubrication with a new boundary condition, Trib Int **31**(12) 753-760 (Dec 1998), 9T1060
Two-phase flow in floating-ring seals for cryogenic turbopumps, Trib Trans **42**(2) 273-281 (Apr 1999), 11T996
Design for optimum gasket assembly stress and leak rate control in bolted gasketed joints, Proc Inst Mech Eng E **213**(E1) 33-44 (1999), 11A1002
Calculation of optimum tooth parameters for magnetic-fluid seals (Chinese), J Shanghai Jiaotong Univ **33**(3) 346-349 (Mar 1999), 12A1003
Effect of the gap of magnetic fluid seal on seal capacity (Chinese), J Shanghai Jiaotong Univ **33**(3) 380-382 (Mar 1999), 12A1004
Photoelastic measurements and computation of the stress field and contact pressure in a pneumatic lip seal, Trib Int **32**(1) 1-13 (Jan 1999), 12A1005
Special issue on seals, Proc Inst Mech Eng J: Eng Trib **213**(J3) 163-237 (1999), 12A1006

294J. Linkages

Kinematic and kinetic derivatives in multibody system analysis, Mech Struct Machines **26**(2) 145-173 (1998), 1A102
Stochastic linkage modeling for mechanical error analysis of planar mechanisms, Mech Struct Machines **26**(3) 257-276 (1998), 3A968
Formulation of the direct and inverse geometric model of the fully parallel Cartesian structure, J Brazilian Soc Mech Sci **20**(3) 445-453 (Sep 1998), 4A447
180° steering interval mechanism, Mech Machine Theory **34**(3) 421-436 (Apr 1999), 4A973
Effects of groove orientation on hydrodynamic behavior of wet clutch coolant films, J Trib **121**(1) 56-61 (Jan 1999), 4A1287
Computational approach for determining location of Burmester solutions with fully rotatable cranks, Mech Machine Theory **34**(4) 549-558 (May 1999), 5A859
Rotational geometric influence coefficients of a planar multi-loop mechanism, Appl Math Model **23**(2) 161-174 (Feb 1999), 6A1106
Numerical flow analysis of torque converter using interrow mixing model, JSME Int J Ser B **41**(4) 847-854 (Nov 1998), 8A937
Kinematic analysis and branch identification of RSCR spatial four-link mechanisms, JSME Int J Ser C **41**(3) 450-459 (Sep 1998), 9A1061
Comparative structural analysis of 2dof semi-direct-drive linkages for robot arms, IEEE/ASME Trans Mechatronics **4**(1) 82-86 (Mar 1999), 12A1008

294L. Hydraulic and pneumatic mechanisms

Test results for liquid "damper" seals using a round-hole roughness pattern for the stators, J Trib **121**(1) 42-49 (Jan 1999), 4A954
Efficiency of multi-range hydromechanical stepless transmission, J Beijing IT 7(2) 129-133 (Jun 1998), 5A860
Static characteristics of a piston-type pilot relief valve, Proc Inst Mech Eng C **213**(C3) 231-239 (1999), 11A997

294M. Hoisting devices

Modeling and control of a 3D overhead crane, J Dyn Syst Meas Control **120**(4) 471-476 (Dec 1998), 3A416
Application of nonlinear optimization methods to input shaping of the hoist drive of an off-shore crane, Nonlinear Dyn **17**(4) 369-386 (Dec 1998), 7A375
Integral analysis of conveyor pulley using FEM, Comput Struct **71**(3) 303-332 (May 1999), 10A1046

294P. Other mechanisms (incl micromechanisms)

Problem of empirical adequacy of a model of the friction trio TRY (Traveller-Ring-Yarn) under conditions of spindle eccentricity on a ring wool-spinning frame, Fibres Textiles in E Europe **6**(1) 28-31 (Jan-Mar 1998), 2A1036
Stresses and deformations in overlapped diesel engine crankshafts - Part 2: Evaluation of results, Proc Inst Mech Eng D **212**(D4) 255-270 (1998), 3A596
Analytic geometry and singularities of mechanisms, Z Angew Math Mech **78**(10) 687-694 (1998), 5A861
Microprocessing at the fingertips, J Micromech Microeng **8**(4) 251-262 (Dec 1998), 6A441
Displacement analysis of pantograph mechanisms with superelastic hinges, JSME Int J Ser C **40**(3) 512-517 (Sep 1997), 9A1062
Development of toggle clamp mechanism of all electric driven plastic injection molding machine (Japanese), J Japan Soc Precision Eng **65**(3) 452-458 (Mar 1999), 10A1047
Attempt of finding analytical interpretation of a drag torque in kinematic ball screw pair, Arch Budowy Maszyn **46**(1) 19-42 (1999), 12A1007

294Y. Computational techniques

Rapid and globally convergent method for dynamically loaded journal bearing design, Proc Inst Mech Eng J: Eng Trib **212**(J3) 207-214 (1998), 1T1043
Development of mathematical modeling of reference methods to measure roundness deviations of machine parts, Strojnicky Casopis **49**(4) 229-242 (1998), 2A1037
Equilibrium analysis of finite width tension dominated foil bearings, J Trib **121**(1) 108-113 (Jan 1999), 4A944
Passive magnetic bearings: The conic-shaped bearing, Proc Inst Mech Eng J: Eng Trib **213**(J2) 151-161 (1999), 10T1044
Influence of roughness rheology on contact rigidity, Appl Mech Eng **4**(S) 417-421 (1999), 11T998
Photoelastic measurements and computation of the stress field and contact pressure in a pneumatic lip seal, Trib Int **32**(1) 1-13 (Jan 1999), 12A1005

296. MACHINE DESIGN

296B. Synthesis and design

Implications of modularity on product design for the life cycle, J Mech Des **120**(3) 483-490 (Sep 1998), 1A485
Classifying functions for mechanical design, J Mech Des **120**(3) 475-482 (Sep 1998), 1A1045
Criteria for the design of manipulator arms for a high stiffness-to-weight ratio, J Manuf Syst **17**(3) 209-220 (1998), 1A1046
Development of methodology for using function analysis in flexible design strategies, Proc Inst Mech Eng J Eng Manuf **212**(B3) 215-230 (1998), 1A1047
Collaborative, sequential, and isolated decisions in design, J Mech Des **120**(4) 643-652 (Dec 1998), 3A969
Facilitating concept exploration for configuring turbine propulsion systems, J Mech Des **120**(4) 702-706 (Dec 1998), 3A970
Framework for decision-based engineering design, J Mech Des **120**(4) 653-658 (Dec 1998), 3A971
Mechanism schemes in teaching: A historical overview, J Mech Des **120**(4) 533-541 (Dec 1998), 3A972
Metrics for assessing design freedom and information certainty in the early stages of design, J Mech Des **120**(4) 628-635 (Dec 1998), 3A973
Observational study of design team processes: A comparison of student and professional engineers, J Mech Des **120**(4) 636-642 (Dec 1998), 3A974
Automated conceptual design of mechanisms, Mech Machine Theory **34**(3) 467-495 (Apr 1999), 4A974
Designation of joints, Mech Machine Theory **34**(4) 527-548 (May 1999), 5A862
General evaluation of customer requirements during conceptual design, J Mech Des **121**(1) 92-97 (Mar 1999), 7A424
Geometric design of roller gear cam reducers, J Mech Des **121**(1) 172-175 (Mar 1999), 7A907
Advanced mechanical design through automated structural synthesis, Sci Eng J (Ciencia Eng) 7(2) 60-69 (Jul-Dec 1998), 7A915
Synthesis of stationary cams, J Mech Des **121**(1) 169-172 (Mar 1999), 7A916
Design calculations for fast plasma position control in Korea Superconducting Tokamak Advanced Research, Fusion Eng Des **45**(1) 101-115 (Mar 1999), 8A412
Linear quadratic Gaussian controller design for plasma current position and shape control system in ITER, Fusion Eng Des **45**(1) 55-64 (Mar 1999), 8A437
Study of design environment for behavioral prototyping (Japanese), J Japan Soc Precision Eng **65**(1) 67-72 (Jan 1999), 8A938
Study on knowledge medium for the global design - A proposal and an application of the activity chain model (Japanese), J Japan Soc Precision Eng **65**(2) 272-278 (Feb 1999), 8A939
Machine Elements in Mechanical Design, Third Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 9N28
Even fitting closed curves: 2D algorithm and assembly applications, J Manuf Sci Eng **121**(2) 265-272 (May 1999), 9A1063
Foraging strategic genetic algorithms to obtain multiple acceptable designs, JSME Int J Ser C **42**(1) 240-247 (Mar 1999), 9A1064
Qualitative solid modeling: Qualitative solid operations and a modeling system, JSME Int J Ser C **41**(4) 953-962 (Dec 1998), 9A1065
Quality utility: A compromise programming approach to robust design, J Mech Des **121**(2) 179-187 (Jun 1999), 9A1066

Triangular nomogram for spherical symmetric coupler curves and its application to mechanism design, J Mech Des **121**(2) 323-326 (Jun 1999), 9A1067
Review of creativity principles applied to engineering design, Proc Inst Mech Eng E **213**(E1) 17-31 (1999), 11A999
Comparative structural analysis of 2dof semi-direct-drive linkages for robot arms, IEEE/ASME Trans Mechatronics **4**(1) 82-86 (Mar 1999), 12A1008

296C. Balancing

Machinery Malfunction, Diagnosis, and Correction: Vibration Analysis and Troubleshooting for the Process Industries (Prentice Hall, Upper Saddle River, NJ, 1998) 1R8
Static balancing of spatial three-dof parallel mechanisms, Mech Machine Theory **34**(3) 437-452 (Apr 1999), 4A975

296D. Computer aided design (CAD)

Automated setup planning for lathe machining, J Manuf Syst **17**(3) 196-208 (1998), 1A497
Machining algebra for mapping volumes to machining operations for developing extensible generative CAPP, J Manuf Syst **17**(3) 167-182 (1998), 1T506
Form transformation based on transverse section area curve with transforming function (Chinese), J Dalian Univ Tech **38**(4) 387-391 (Jul 1998), 1A1048
Structural frame and setting technology in virtual die and mold CAD-CAE-CAM system (Chinese), J Shanghai Jiaotong Univ **32**(5) 23-27 (May 1998), 1A1049
Visual assessment of free-form surfaces in CAD-CAM, Proc Inst Mech Eng J Eng Manuf **212**(B3) 207-214 (1998), 1A1050
Evaluation of factors and current approaches related to computerized design of tillage tools: A review, J Terramech **35**(2) 69-86 (Apr 1998), 2A1038
Mechanical analysis for the design of a fiber reinforced pelvic prosthesis with the aid of CAD and CAE-techniques, Sci Eng Comp Mat **7**(3) 209-213 (1998), 2A1039
Optimization of design parameters of rigid-link track systems using an advanced computer aided method, Proc Inst Mech Eng D **212**(D3) 153-167 (1998), 2A1040
Applying virtual reality techniques to sensitivity-based structural shape design, J Mech Des **120**(4) 612-619 (Dec 1998), 3A975
Approach to modeling and representation of heterogeneous objects, J Mech Des **120**(4) 659-667 (Dec 1998), 3A976
Computer aided design of cutters for helicoidal surfaces, Proc Inst Mech Eng J Eng Manuf **212**(B5) 373-382 (1998), 3A977
Design of special tools by CAD-CAM systems, Proc Inst Mech Eng J Eng Manuf **212**(B5) 357-371 (1998), 3A978
Integrated CAD system for the blanking of irregular-shaped sheet metal products, J Mat Processing Tech **83**(1-3) 84-97 (Nov 1998), 3A979
Reverse engineering of free-form configurations using CAD, CMM, and stereo vision (Chinese), J Xi'an Jiaotong Univ **32**(7) 68-71 (1998), 3A980
Three-dimensional CAD-CAM-CAE integration system of sculpture surface die for hollow cold extrusion, Int J Machine Tools Manuf **39**(1) 33-53 (Jan 1998), 3A981
Research on character of vehicle speed governor (Chinese), J Dalian Univ Tech **38**(5) 544-547 (Sep 1998), 4A403
Automatic feature extraction in PRIZCAPP, Int J Comput Integrated Manuf **11**(6) 500-512 (Nov-Dec 1998), 4T465
Research on object-oriented and feature-based product modeling in the CAD-CAM integration system of sheet metal parts (Chinese), J Huazhong Univ Sci Tech **26**(8) 26-28 (Aug 1998), 4A476
Computer integrated manufacturing system for rotational parts, Int J Comput Integrated Manuf **11**(6) 534-547 (Nov-Dec 1998), 4A482
Volume decomposition approach to process planning for prismatic parts with depression and protrusion design features, Int J Comput Integrated Manuf **11**(6) 548-563 (Nov-Dec 1998), 4A507
Manipulating information and dependencies to support CAD 3D systems-solids modeling-by application of ATMS (Spanish), J Brazilian Soc Mech Sci **20**(3) 400-415 (Sep 1998), 4A976
Method and implementation of checking over-constraint and under-constraint in 2D parametric CAD (Chinese), J Dalian Univ Tech **38**(5) 539-543 (Sep 1998), 4A977
Computer-aided research on the optimization of hinge position for the cylinder of hydraulic lock gate hoist (Chinese), J Huazhong Univ Sci Tech **26**(S1) 21-23 (May 1998), 4A978
Computer aided design of supersonic jet nozzle for jet mill (Chinese), J Dalian Univ Tech **38**(5) 553-557 (Sep 1998), 4A1176
Object-oriented relational database and application in vehicle body design (Chinese), J Beijing IT **18**(1) 100-104 (Feb 1998), 5A863
System of computer aided management and design of manufacture equipment (Chinese), J Beijing IT **18**(4) 444-448 (Aug 1998), 5A864
CAD-DAM integration based on STEP standard (Chinese), J Tsinghua Univ Sci Tech **38**(7) 115-119 (Jul 1998), 6A1107
Concurrent engineering-oriented CAD system (Chinese), J Tsinghua Univ Sci Tech **38**(8) 31-34 (Aug 1998), 6A1108
Computer-Aided Design-CAM system for deep drawing dies in a simple-action press, J Mat Processing Tech **87**(1-3) 258-265 (Mar 1999), 7A664
Status and fracture of geometry modeling and grid generation for design and optimization, J Aircraft **36**(1) 97-104 (Jan-Feb 1999), 7A917
All quadrilateral FE mesh generation of 3D-surfaces in CAD and method of locally adding mesh density (Chinese), J Dalian Univ Tech **38**(6) 738-741 (Nov 1998), 8A36
Computer aided geometric design based on totally 4D homogeneous processing - 2nd report: A comparative study between the Euclidean and homogeneous processing methods, J Japan Soc Precision Eng **65**(1) 78-84 (Jan 1999), 8T940
Errors of the reference methods parameters in the measurement of roundness deviation of machine elements, Strojnicky Casopis **50**(1) 15-23 (1999), 8A941
History of CAD System (Japanese), J Japan Soc Precision Eng **65**(1) 7-12 (Jan 1999), 8T942
Architecture for form feature modeling for concurrent, cooperative and consistent product design, JSME Int J Ser C **40**(3) 533-539 (Sep 1997), 9A535
DFA-oriented assembly relation modeling, Int J Comput Integrated Manuf **12**(3) 238-250 (May-Jun 1999), 9T538
Integrated knowledge-based approach and system for product design for assembly, Int J Comput Integrated Manuf **12**(3) 211-237 (May-Jun 1999), 9A542
Qualitative solid modeling: Qualitative solid operations and a modeling system, JSME Int J Ser C **41**(4) 953-962 (Dec 1998), 9A1065
Computerized design, generation and simulation of meshing of a spiroid worm-gear drive with a ground double-crowned worm, J Mech Des **121**(2) 264-273 (Jun 1999), 9A1068
Curve and surface modeling with uncertainties using dual kriging, J Mech Des **121**(2) 249-255 (Jun 1999), 9A1069
Dimensional measurement data analysis - Part 1: A zone fitting algorithm, J Manuf Sci Eng **121**(2) 238-245 (May 1999), 9A1070
Dimensional measurement data analysis - Part 2: Minimum zone evaluation, J Manuf Sci Eng **121**(2) 246-250 (May 1999), 9A1071
Fast optimization of mechanical designs using CAD-computer aided engineering emulation: A case study, Proc Inst Mech Eng D **213**(D1) 27-35 (1999), 9A1072
Geometric model based displacement analysis system of mechanisms, JSME Int J Ser C **41**(1) 134-142 (Mar 1998), 9A1073
Mid-surfaces of profile-based freeforms for mold design, J Manuf Sci Eng **121**(2) 202-207 (May 1999), 9A1074
CAD-CAM algorithm of ruled surface based on line geometry, Chinese J Mech Eng **11**(3) 207-211 (Sep 1998), 10A1048
Construction and modification of flexible feature-based models, Chinese J Mech Eng **12**(1) 11-17 (Mar 1999), 10A1049
CAE analysis of the multi-stage forming processes of complicated automobile part (Chinese), J Shanghai Jiaotong Univ **33**(2) 170-173 (Feb 1999), 11A687
Three-dimensional FEM simulation of the cross-shaft multi-stage forging processes (Chinese), J Shanghai Jiaotong Univ **33**(2) 192-195 (Feb 1999), 11A689
Computer simulation for multi-stage sheet metal forming processes (Chinese), J Shanghai Jiaotong Univ **33**(2) 244-246 (Feb 1999), 11A697
Adaptive-growth-type 3D representation for spatial design (Japanese), J Japan Soc Precision Eng **65**(4) 525-531 (Apr 1999), 11A1000
Concurrent engineering and the key techniques in progressive die CAD application (Chinese), J Shanghai Jiaotong Univ **33**(2) 228-232 (Feb 1999), 11A1001
Decoupling solution method for implicit numerical integration of constrained mechanical systems, Mech Struct Machines **27**(2) 129-141 (1999), 12A1010
Inverse design of diffuser blade by neural networks (Chinese), J Xi'an Jiaotong Univ **33**(6) 39-41 (1999), 12A1257

296E. Optimized design

Integrated approach to optimal 3D layout and routing, J Mech Des **120**(3) 510-512 (Sep 1998), 1A486
Design optimization for robustness using quadrature factorial models, Eng Optim **30**(3-4) 203-225 (May 1998), 1A1051
Modified Dempster-Shafer theory for multicriteria optimization, Eng Optim **30**(3-4) 177-201 (May 1998), 1A1052
Computer-aided profile optimization of ion-milled microstructures, Model Simulation Mat Sci Eng **6**(3) 251-260 (May 1998), 2A814
Sensor location optimization for fault diagnosis in multi-fixture assembly systems, J Manuf Sci Eng **120**(4) 781-792 (Nov 1998), 2A1041
Design optimization of valveless DTH pneumatic hammers by a weighted pseudo-gradient search method, J Mech Des **120**(4) 687-694 (Dec 1998), 3A982
Interactive multistage ϵ -inequality constraint method for multiple objectives decision making, J Mech Des **120**(4) 678-686 (Dec 1998), 3A983
Mechanism design with MP-neural networks, J Mech Des **120**(4) 527-532 (Dec 1998), 3A984
Optimization of the tractive performance of four-wheel-drive tractors: Theoretical analysis and experimental substantiation, Proc Inst Mech Eng D **212**(D4) 285-297 (1998), 3A985
Shape optimization of a vehicle speed control bump, Mech Struct Machines **26**(3) 319-342 (1998), 3A986
Computer-aided research on the optimization of hinge position for the cylinder of hydraulic lock gate hoist (Chinese), J Huazhong Univ Sci Tech **26**(S1) 21-23 (May 1998), 4A978
Optimal design of quasi-brittle elastic bodies with cracks, Mech Struct Machines **26**(4) 365-376 (1998), 5A768
New math model for designing engine radiator, J Beijing IT **7**(2) 141-145 (Jun 1998), 5A865
Optimization of mechanisms and the effect of collisions, Mech Struct Machines **26**(4) 401-421 (1998), 5A866
Shape optimization of the piston with thermal load (Chinese), J Beijing IT **18**(4) 426-430 (Aug 1998), 5A867
Study on adaptive shape optimization, J Beijing IT **7**(2) 154-159 (Jun 1998), 5A868
Topology optimum design of 2D continuum structures (Chinese), J Beijing IT **18**(1) 11-16 (Feb 1998), 5A869
Genetic design of dynamically optimal robotic manipulators, J Syst Control Eng **212**(16) 423-436 (1998), 6A474
Intelligent optimization for mechanical product based on hybrid variable adjustment (Chinese), J Huazhong Univ Sci Tech **26**(10) 42-44 (Oct 1998), 6A1109
Truck cab suspension design: Optimization and vibration control, Heavy Vehicle Syst **5**(3-4) 236-260 (1998), 7A192
Development of optimization investigation in ship structural design (Chinese), J Shanghai Jiaotong Univ **32**(11) 118-120 (Nov 1998), 7A877
Optimal design of a medical staple using shape memory alloy, J Mech Des **121**(1) 71-76 (Mar 1999), 7A918
Cluster analysis after a partial genetic algorithm search, Eng Optim **31**(2) 225-246 (Dec 1998), 8A943
New optical pickup suspension design, Int J Solids Struct **36**(17) 2541-2556 (Jun 1999), 8A944
Optimization of mechanisms using direct differentiation and a multipoint approximation method, Eng Optim **31**(2) 141-160 (Dec 1998), 8A945
Other side of multidisciplinary design optimization: Accomodating a multiobjective, uncertain and non-deterministic world, Eng Optim **31**(2) 161-189 (Dec 1998), 8A946
Simulated annealing algorithm applied to optimize design of turbine cascade: (Chinese), J Xi'an Jiaotong Univ **33**(3) 64-67 (1999), 8A947
Optimization for vibration problems: Junction layout of a combined structure under oscillation, J Mech Des **121**(2) 188-194 (Jun 1999), 9A178
Duality approach in the optimization of beams and plates, SIAM J Control Optim **27**(2) 486-501 (Nov 1998), 9T1075
Energy formulation for parametric size and shape optimization of compliant mechanisms, J Mech Des **121**(2) 229-234 (Jun 1999), 9A1076
Introns for accelerating quasi-macroevolution, JSME Int J Ser C **41**(3) 398-405 (Sep 1998), 9A1077
Optimal digital redesign of a cascaded continuous-time system with input time delays, JSME Int J Ser C **41**(3) 421-429 (Sep 1998), 9A1078
Structural optimization considering flexibility: Integrated design method for compliant mechanisms, JSME Int J Ser C **41**(3) 476-484 (Sep 1998), 9A1079
Turbomachinery design - Part 1, Proc Inst Mech Eng C **213**(C1) 1-102 (1999), 9T1299
Vibration control and experiment of three-ring reducer, Chinese J Mech Eng **11**(4) 319-325 (Dec 1998), 10A1040
Application of element-free Trefftz method to second-order design sensitivity analysis of 2D elastic problem, JSME Int J Ser A **40**(4) 375-381 (Oct 1997), 10A1050
Numerical solution for min-max shape optimization problems - Minimum design of maximum stress and displacement, JSME Int J Ser A **41**(1) 1-9 (Jan 1998), 10A1051
Thermoelastic design of symmetric laminates using lamination parameters, JSME Int J Ser A **40**(4) 389-397 (Oct 1997), 10A1052
New multiobjective simulated annealing algorithm and its application to turbine cascades' design, Chinese J Mech Eng **12**(1) 50-55 (Mar 1999), 10A1270
Optimization for the process parameters of sheet metal forming (Chinese), J Shanghai Jiaotong Univ **33**(2) 178-180 (Feb 1999), 11A702
Numerical methods for the optimization of specific sliding, stress concentration and fatigue life of gears, Int J Fatigue **21**(5) 465-474 (May 1999), 11A988
Design for optimum gasket assembly stress and leak rate control in bolted gasketed joints, Proc Inst Mech Eng E **213**(E1) 33-44 (1999), 11A1002
New reflection generator for simulated annealing in mixed-integer-continuous global optimization, J Optim Theory Appl **101**(2) 403-427 (May 1999), 12T390
Optimal geometries of shape controlled structures, Mech Struct Machines **27**(2) 143-162 (1999), 12A892
Stress model for multiobjective design optimization of a power electronic module, Mech Struct Machines **27**(2) 163-183 (1999), 12A896
Configuration design sensitivity analysis of kinematic responses of mechanical systems, Mech Struct Machines **27**(2) 203-215 (1999), 12T1009

296F. Kinematics of mechanisms

Kinematics of a five dof prosthetic arm, Mech Machine Theory **33**(7) 895-908 (Oct 1998), 1A93
Kinematic and kinetic derivatives in multibody system analysis, Mech Struct Machines **26**(2) 145-173 (1998), 1A102
Kinematic analysis of geared robot manipulators by the concept of structural decomposition, Mech Machine Theory **33**(7) 975-986 (Oct 1998), 1A464
Domains of mobility for a planar body moving among obstacles, J Mech Des **120**(3) 462-467 (Sep 1998), 1A471
ZK-type dual-lead worm and worm gear drives: Contact teeth, contact ratios and kinematic errors, J Mech Des **120**(3) 422-428 (Sep 1998), 1A1040
Algebraic construction of the three-system of screws, Mech Machine Theory **33**(7) 925-930 (Oct 1998), 1A1053
Analytical identification of the principal screws of the third order screw system, Mech Machine Theory **33**(7) 987-992 (Oct 1998), 1A1054
Assembly configurations and branches of planar single-input dyadic mechanisms, J Mech Des **120**(3) 381-386 (Sep 1998), 1A1055
Assembly configurations of single-loop mechanisms with pin joints and sliding joints, J Mech Des **120**(3) 387-391 (Sep 1998), 1A1056
Dual number method, rank of a screw system and generation of Lie sub-algebras, Mech Machine Theory **33**(7) 1063-1084 (Oct 1998), 1A1057
Topology based rating of kinematic chains and inversions using information theory, Mech Machine Theory **33**(7) 1055-1062 (Oct 1998), 1A1058
Manipulability of closed kinematic chains, J Mech Des **120**(4) 542-548 (Dec 1998), 3A463
Stochastic linkage modeling for mechanical error analysis of planar mechanisms, Mech Struct Machines **26**(3) 257-276 (1998), 3A968
Kinematic analysis of singularity loci of spatial four-dof parallel manipulators using a vector formulation, J Mech Des **120**(4) 555-558 (Dec 1998), 3A987
Kinematics of three-link spatial cam mechanisms, Meccanica **33**(4) 349-361 (Aug 1998), 3A988
Real-time computation of the actual posture of the general geometry 6-6 fully-parallel mechanism using two extra rotary sensors, J Mech Des **120**(4) 549-554 (Dec 1998), 3A989
Third-order finite screw system: General displacement of a line, Mech Machine Theory **34**(2) 303-317 (Feb 1999), 4A88
Artificial neural network approach to mechanism kinematic chain isomorphism identification, Mech Machine Theory **34**(2) 271-283 (Feb 1999), 4A419
Formulation of the direct and inverse geometric model of the fully parallel Cartesian structure, J Brazilian Soc Mech Sci **20**(3) 445-453 (Sep 1998), 4A447
Curvature analysis of spatial cam-follower mechanisms, Mech Machine Theory **34**(2) 319-339 (Feb 1999), 4A958
180° steering interval mechanism, Mech Machine Theory **34**(3) 421-436 (Apr 1999), 4A973
Characterization of the self-motion set of the orthogonal spherical mechanism, Mech Machine Theory **34**(1) 59-88 (Jan 1999), 4A979
Direct displacement analysis of a Stewart platform mechanism, Mech Machine Theory **34**(3) 453-465 (Apr 1999), 4A980

Workspace determination of spherical serial and platform mechanisms, Mech Machine Theory **34**(3) 497-512 (Apr 1999), 4A981
Screw theory and higher order kinematic analysis of open serial and closed chains, Mech Machine Theory **34**(4) 559-586 (May 1999), 5A74
Algorithm for the kinematic analysis and optimal input joint assignment of recursive mechanisms, Mech Machine Theory **34**(4) 615-635 (May 1999), 5A870
Position analysis of a two dof parallel mechanism: The Canterbury tracker, Mech Machine Theory **34**(4) 599-614 (May 1999), 5A871
Singularities in mechanisms - II: Trajectory tracking in the 3-axis wrist, Mech Machine Theory **34**(4) 513-526 (May 1999), 5A872
Rotational geometric influence coefficients of a planar multi-loop mechanism, Appl Math Model **23**(2) 161-174 (Feb 1999), 6A1106
Kinematic and dynamic analyses of the tripode joint, Multibody Syst Dyn **2**(4) 355-367 (Dec 1998), 6A1110
Kinematic considerations for reducing the circulating power effects in gear-type continuously variable transmissions, Proc Inst Mech Eng D **212**(D6) 463-478 (1998), 6A1111
Singularity analysis of closed kinematic chains, J Mech Des **121**(1) 32-38 (Mar 1999), 7A410
Burmester lines of spatial five position synthesis from the analysis of a 3-CPC platform, J Mech Des **121**(1) 45-49 (Mar 1999), 7A415
Geared 2-dof mechanical function generator, J Mech Des **121**(1) 65-70 (Mar 1999), 7A919
New approach to mechanism topology identification, J Mech Des **121**(1) 57-64 (Mar 1999), 7A920
Development of smooth impact drive mechanism - Proposal of driving mechanism and basic performance (Japanese), J Japan Soc Precision Eng **65**(1) 111-115 (Jan 1999), 8A948
Two wheels connected by an unactuated variable length axle on uneven ground: Kinematic modeling and experiments, J Mech Des **121**(2) 235-240 (Jun 1999), 9A80
Kinematics and workspace analysis of a parallel wire mechanism for measuring a robot pose, Mech Machine Theory **34**(6) 825-841 (Aug 1999), 9A516
Solving the forward kinematics of a planar three-legged platform with holonomic higher pairs, J Mech Des **121**(2) 212-219 (Jun 1999), 9A519
Displacement analysis of pantograph mechanisms with superelastic hinges, JSME Int J Ser C **40**(3) 512-517 (Sep 1997), 9A1062
Geometric model based displacement analysis system of mechanisms, JSME Int J Ser C **41**(1) 134-142 (Mar 1998), 9A1073
Kinematics parametric method to generate new tooth profiles of gear sets with skew axes, Mech Machine Theory **34**(6) 857-876 (Aug 1999), 9A1080
Selected papers from the NATO advanced study institute on computational methods in mechanisms, June 16-28,1997, in Varna, Bulgaria, Mech Machine Theory **34**(5) 665-800 (Jul 1999), 9T1081
Singularity analysis of spatial mechanisms using dual polynomials and complex dual numbers, J Mech Des **121**(2) 200-205 (Jun 1999), 9A1082
Solving the input-output problem for planar mechanisms, J Mech Des **121**(2) 206-211 (Jun 1999), 9A1083
Formulation of a class of higher pair joints in multibody systems using joint coordinates, Multibody Syst Dyn **3**(1) 21-45 (Feb 1999), 11A135
Kinematics of tripode transmissions: A new approach, Multibody Syst Dyn **3**(1) 85-105 (Feb 1999), 11A1003
Configuration design sensitivity analysis of kinematic responses of mechanical systems, Mech Struct Machines **27**(2) 203-215 (1999), 12T1009

296G. Dynamics of mechanisms

Optimization of the trajectory planning of robot manipulators taking into account the dynamics of the system, Mech Machine Theory **33**(7) 883-894 (Oct 1998), 1A467
Parametric uncertainty on manipulators dynamics, Mech Machine Theory **33**(7) 945-956 (Oct 1998), 1A468
Drive train design of gear coupled manipulators, J Robotic Syst **15**(8) 477-486 (Aug 1998), 1A1032
International Conference on Advances in Mechanical Engineering: Bangalore, India December 20-22, 1995, Mech Machine Theory **33**(8) 1091-1299 (Nov 1998), 1T1059
Sensitivity and robustness of mechanism balancing, Mech Machine Theory **33**(7) 1045-1054 (Oct 1998), 1A1060
Modal interaction, stability and nonlinear dynamics of a model two dof mechanical system performing snap-through motion, Nonlinear Dyn **16**(3) 239-257 (Jul 1998), 2T141
General method for estimating dynamic parameters of spatial mechanisms, Nonlinear Dyn **16**(4) 349-368 (Aug 1998), 2A160
Tolerance optimization for mechanisms with lubricated joints, Multibody Syst Dyn **2**(2) 145-168 (Jun 1998), 3A990
Fuzzy sliding mode controlled slider-crank mechanism using a PM synchronous servo motor drive, Int J Mech Sci **41**(3) 337-355 (Mar 1999), 4A423
Dynamic modeling of geared robotic mechanisms - The Virtual link approach, Mech Machine Theory **34**(1) 105-121 (Jan 1999), 4A445
Kinematic and dynamic analyses of the tripode joint, Multibody Syst Dyn **2**(4) 355-367 (Dec 1998), 6A1110
Torsional excitation of variable inertia effects in a reciprocating engine, Mech Syst Signal Processing **13**(1) 125-144 (Jan 1999), 7A200
Dynamics of rigid multibody systems with clearances in the joints, Mech Struct Machines **27**(1) 63-87 (1999), 8T85
Development of smooth impact drive mechanism - Proposal of driving mechanism and basic performance (Japanese), J Japan Soc Precision Eng **65**(1) 111-115 (Jan 1999), 8A948
Prediction of the first modal frequency of compliant mechanisms using the pseudo-rigid-body model, J Mech Des **121**(2) 309-313 (Jun 1999), 9A1084
Theory of complete force and moment balancing of planar linkage mechanisms, Mech Machine Theory **34**(6) 903-922 (Aug 1999), 9A1085
Variable-geometry motion control of an aircraft door, J Mech Des **121**(2) 195-199 (Jun 1999), 9A1086
Stability analysis of a slider-crank mechanism due to the existence of two-component parametric resonance, Int J Solids Struct **36**(28) 4225-4250 (Oct 1999), 10A1053

296H. Elastodynamics of mechanisms

Stability and control of a parametrically excited rotating beam, J Dyn Syst Meas Control **120**(4) 462-470 (Dec 1998), 3A421
Dynamic simulation of general flexible multibody systems, Mech Struct Machines **27**(2) 217-251 (1999), 12A122

296I. Reliability analysis and design

Analysis of bending and shearing of tri-layer laminations for solder joint reliability, J Electron Packaging **120**(3) 221-228 (Sep 1998), 1A1061
Reliability modeling in design for remanufacture, J Mech Des **120**(4) 620-627 (Dec 1998), 3A991
Fatigue life prediction of a railway bogie under dynamic loads through simulation, Vehicle Syst Dyn **29**(6) 385-402 (Jun 1998), 4A429
Objective machinery fault diagnosis using fuzzy logic, Mech Syst Signal Processing **12**(6) 855-862 (Nov 1998), 6A452
Solving a problem of system reliability optimization with genetic algorithms (Chinese), J Tsinghua Univ Sci Tech **38**(7) 54-57 (Jul 1998), 6A1033
Adaptive prognostics for rolling element bearing condition, Mech Syst Signal Processing **13**(1) 103-113 (Jan 1999), 7A399
Review of design for safety methodology for large marine and offshore engineering systems, Proc Inst Mech Eng E **212**(E4) 251-261 (1998), 7A841
Probabilistic-based design model for achieving flexibility in design, J Mech Des **121**(1) 77-83 (Mar 1999), 7A921
Reliability prediction procedures for mechanical components at the design stage, Proc Inst Mech Eng E **212**(E4) 213-224 (1998), 7A922
Reliability-based optimal design of submarine cylindrical pressure hull (Chinese), J Shanghai Jiaotong Univ **32**(11) 90-92 (Nov 1998), 7A923
Review of mechanical reliability, Proc Inst Mech Eng E **212**(E4) 281-287 (1998), 7A924
Selection of informative wavelets for machinery diagnosis, Mech Syst Signal Processing **13**(1) 145-162 (Jan 1999), 7T925
OMPAC package C5 reliability: Parametric study, J Electron Packaging **121**(1) 18-22 (Mar 1999), 7A931
Approach to design for reliability, Proc Inst Mech Eng E **213**(E1) 61-67 (1999), 11A1004

296Y. Computational techniques

Simple and accurate method for determining large deflections in compliant mechanisms subjected to end forces and moments, J Mech Des **120**(3) 392-400 (Sep 1998), 1A659
Design and tessellation of B-spline developable surfaces, J Mech Des **120**(3) 453-461 (Sep 1998), 1A1062
Fuzzy kinetostatic analysis of imprecisely-defined mechanisms, J Mech Des **120**(3) 377-380 (Sep 1998), 1A1063
General method for estimating dynamic parameters of spatial mechanisms, Nonlinear Dyn **16**(4) 349-368 (Aug 1998), 2A160
Stabilization method for numerical integration of multibody mechanical systems, J Mech Des **120**(4) 565-572 (Dec 1998), 3A115
Automating the flexible lofting spline for reusable forming devices, J Mech Des **120**(4) 695-701 (Dec 1998), 3A477
Accurate determination of object position from imprecise data, J Mech Des **120**(4) 559-564 (Dec 1998), 3A992
Feature complexity index, Proc Inst Mech Eng C **212**(C5) 405-412 (1998), 3A993
Mathematical Modeling for Design of Machine Components (TK-Integrated) (Prentice Hall, Upper Saddle River, NJ, 1999) 4R8
Computational approach for determining location of Burmester solutions with fully rotatable cranks, Mech Machine Theory **34**(4) 549-558 (May 1999), 5A859
Smart Engineering Systems: Neural Networks, Fuzzy Logic, Evolutionary Programming, Data Mining, and Rough Sets (ASME, New York, 1998) 6N27
New approach to solving the inverse problem for compound gear trains, J Mech Des **121**(1) 98-106 (Mar 1999), 7A910
First- and second-order design sensitivity analysis scheme based on Trefftz method, J Mech Des **121**(1) 84-91 (Mar 1999), 7A926
Mass center of planar mechanisms using auxiliary parallelograms, J Mech Des **121**(1) 166-168 (Mar 1999), 7A927
Integration method for input-output modeling and error analysis of four-bar polymer compliant micromachines, J Mech Des **121**(2) 220-228 (Jun 1999), 9A1087
Mechanical alignment using duplicate circular wedges, J Mech Des **121**(2) 305-309 (Jun 1999), 9A1088
Automatic and a priori refinement of 3D meshes based on feature recognition techniques, Adv Eng Software **30**(8) 563-573 (Aug 1999), 11A1005
Interface agent that actively supports CAE beginner users in performing analyses, Adv Eng Software **30**(8) 575-579 (Aug 1999), 11A1006
Dynamic simulation of general flexible multibody systems, Mech Struct Machines **27**(2) 217-251 (1999), 12A122
Decoupling solution method for implicit numerical integration of constrained mechanical systems, Mech Struct Machines **27**(2) 129-141 (1999), 12A1010
Determination of envelope to family of planar parametric curves and envelope singularities, Comput Methods Appl Mech Eng **175**(1-2) 175-187 (Jun 1999), 12A1011
Reproducing kernel particle method for meshless analysis of microelectromechanical systems, Comput Mech **23**(4) 324-338 (May 1999), 12A1012

298. FASTENING AND JOINING

298B. Mechanical joints

Alternative ring-test geometry for the evaluation of friction under low normal pressure, J Mat Processing Tech **79**(1-3) 14-24 (Jul 1998), 1A1064
Effect of member length on the parameter estimates of joints, Comput Struct **68**(4) 381-391 (Aug 1998), 1A1065
Practical application of the semi-rigid joint models in global analysis (Polish), Inzynieria Budownictwo **54**(7) 366-371 (1998), 2T986
Stress concentration factors within bolt-nut connectors under elastoplastic deformation, Int J Fatigue **20**(9) 651-659 (Oct 1998), 3A521
Experimental study on the effect of fiber reinforced rubber-rolled pin of the bridge restrainer plate system (Japanese), Proc JSCE **598**(I-44) 333-346 (Jul 1998), 3A908
Tolerance optimization for mechanisms with lubricated joints, Multibody Syst Dyn **2**(2) 145-168 (Jun 1998), 3A990
Asymptotic description of the stress field around the bond edge of a cylindrical joint, Arch Appl Mech **68**(7-8) 552-565 (Sep 1998), 3A994
Fundamental study on ultrasonic nondestructive evaluation of butt welded joints of thick steel plate containing planar defects (Japanese), Proc JSCE **598**(I-44) 323-332 (Jul 1998), 3A995
Modeling real mechanical connections through the definition of "Clearance and Tolerance Space" (CTS) (French), Rev Francaise Mec **0**(3) 210-217 (Sep 1998), 4T982
Ultrasonic measurement of the bending of a bolt in a shear joint, Exp Mech **38**(4) 270-277 (Dec 1998), 5A760
Finite element study of electromagnetic riveting, J Manuf Sci Eng **121**(1) 61-68 (Feb 1999), 6A24
Effects of exposure time on tackiness and rheology of solder paste, Proc Inst Mech Eng J Eng Manuf **212**(B7) 517-524 (1998), 6A479
Effect of interference fits in composite pin-joints, J Thermoplastic Composite Mat **12**(1) 23-32 (Jan 1999), 6A616
Elastic behavior of a cross-ply composite pin-joint with clearance fits, J Thermoplastic Composite Mat **12**(1) 13-22 (Jan 1999), 6A617
Influence of static strength of steel and weld material on fatigue strength of cruciform fillet welded joints (Japanese), Proc JSCE **605**(I-45) 289-293 (Oct 1998), 6A856
Experimental and numerical failure analysis of bolted joints in CFRP woven laminates, Aeronaut J **102**(1018) 445-450 (Oct-Dec 1998), 6A1112
Study on the inspection and adjustment of rail joint gap for the safety of train operation (Japanese), Proc JSCE **604**(IV-41) 59-72 (Oct 1998), 6A1113
Thickness effects on pinned joints for composites, J Composite Mat **33**(1) 2-21 (1998), 6A1114
Analytical and FE modeling of riveted lap joints in aircraft structure, AIAA J **37**(1) 93-99 (Jan 1999), 7A12
Response of welded thermoelastic solids to the rapid motion of thermomechanical sources parallel to the interface, Int J Solids Struct **36**(10) 1503-1521 (Apr 1999), 7A1412
Parametric analysis of the structural response of steel base plate connections, Comput Struct **71**(1) 87-103 (Apr 1999), 9A1089
Behaviors of a single crack in multiple bolted joints, Int J Solids Struct **36**(27) 4055-4070 (Sep 1999), 10A1054
Bond properties of concrete joints and size effect, Proc JSCE **613**(V-42) 309-318 (Feb 1999), 10A1055
In-situ identification method for joint parameters in mechanical structures, J Vib Acoust **121**(3) 363-372 (Jul 1999), 10A1056
Mechanical behaviors of bolted joint during tightening using torque control, JSME Int J Ser A **41**(2) 185-191 (Apr 1998), 10A1057
Plastic design of elements of bolt and pin joints subjected to compressive loads, Eng Trans **46**(1) 27-44 (1998), 10A1058
Selected cases of bi-area contact for cylindrical elements, Eng Trans **46**(2) 229-238 (1998), 10A1059
Strength of bolted and bonded single-lapped composite joints in tension, J Composite Mat **33**(7) 640-666 (1999), 10A1060
Strength of joints combining adhesives with bolts - Case where adherends are pipe flanges of which the interfaces are bonded partially, JSME Int J Ser A **42**(1) 126-134 (Jan 1999), 10A1073
Two-dimensional FE analyses and histomorphology of lag screws with and without a biconcave washer, J Biomech **32**(5) 511-520 (May 1999), 10A1644
Direct linear-elastic analysis of double symmetric bonded joints and reinforcements, Composites Sci Tech **59**(7) 1127-1137 (May-Jun 1999), 11A540
Stiffness improvement of bolted joint: Uniformization of contact pressure distribution (Japanese), J Japan Soc Precision Eng **65**(4) 537-541 (Apr 1999), 11A1007
Study on new joint system for glulam timber beams by prestressing (Japanese), Proc JSCE **616**(VI-42) 91-102 (Mar 1999), 11A1008
Application of FEM in modeling rigid and flexible systems with joint clearances, Strojnicky Casopis **50**(3) 177-187 (1999), 12A1013
Delamination onset prediction in mechanically fastened joints in composite laminates, J Composite Mat **33**(10) 906-927 (1999), 12A1014
Fastener design for transversely loaded composite plates, J Composite Mat **33**(10) 928-940 (1999), 12A1015
Stresses, deformations and damping in interference-fits, Strojnicky Casopis **50**(3) 145-155 (1999), 12A1016

298C. Welding, brazing, and soldering

Parametric study of residual stresses in multi-pass butt-welded stainless steel pipes, Int J Pressure Vessels Piping **75**(1) 11-25 (Jan 1998), 1A585
Estimation of the local mechanical properties of pipeline steels and welded joints by use of the microshear test method, Int J Pressure Vessels Piping **75**(1) 37-42 (Jan 1998), 1A597
Fatigue propagation of superficial semi and quart-elliptical cracks in wet welds (Spanish), J Brazilian Soc Mech Sci **20**(2) 263-277 (Jun 1998), 1A825
Fatigue design of spot-welded austenitic and duplex stainless sheet steels, Fatigue Fracture Eng Mat Struct **21**(6) 673-686 (1998), 1A841
Creep and fracture behavior of English Electric Mark III transition welds - A: New weldments, Int J Pressure Vessels Piping **75**(2) 83-94 (Feb 1998), 1A849
Creep and fracture behavior of English Electric Mark III transition welds - B: Ex-service weldments, Int J Pressure Vessels Piping **75**(2) 95-103 (Feb 1998), 1A850
Finite element analysis on relationships between the J-integral and CTOD for stationary cracks in welded tensile specimens, Int J Pressure Vessels Piping **75**(3) 197-202 (Mar 1998), 1A879

Analysis of bending and shearing of tri-layer laminations for solder joint reliability, J Electron Packaging **120**(3) 221-228 (Sep 1998), 1A1061
Application of the Taguchi method to the optimization of the submerged arc welding process, Mat Manuf Processes **13**(3) 455-467 (1998), 1A1066
Axisymmetric laser welding of ceramics: Comparison of experimental and FE results, Opt Lasers Eng **29**(6) 465-484 (Jun 1998), 1A1067
Nondestructive determination of welding residual stresses by BEM, Adv Eng Software **29**(2) 89-95 (Mar 1998), 1A1068
Rapid prototyping of metal parts by 3D welding, Proc Inst Mech Eng J Eng Manuf **212**(B3) 175-182 (1998), 1A1069
Robust in-process monitoring of pulsed laser spot welding using a point infrared sensor, Proc Inst Mech Eng J Eng Manuf **212**(B3) 241-250 (1998), 1A1070
Two-body formulation for solder joint shape prediction, J Electron Packaging **120**(3) 302-308 (Sep 1998), 1A1071
Three-dimensional thermomechanical analysis of circumferentially welded thin-walled pipes, Int J Pressure Vessels Piping **75**(3) 237-247 (Mar 1998), 1A1372
Effects of redistributing residual stress on the fatigue behavior of SS330 weldment, Int J Fatigue **20**(8) 565-573 (Sep 1998), 2A831
Fatigue life prediction of welded structures containing nonplanar flaws using Quality Category under nonconstant amplitude loading, Int J Pressure Vessels Piping **75**(5) 433-435 (Apr 1998), 2A838
Creep behavior of full-size welded joints: Defect acceptance criteria, Fatigue Fracture Eng Mat Struct **21**(7) 791-803 (1998), 2A852
Statistical investigation of the fatigue lives of Q235 steel-welded joints, Fatigue Fracture Eng Mat Struct **21**(7) 781-790 (1998), 2A855
Application of image processing to automatic weld inspection and welding process control, Int J Japan Soc Precision Eng **32**(2) 81-84 (Jun 1998), 2A1042
Classification algorithm and optimal feature selection methodology for automated solder joint defect inspection, J Manuf Syst **17**(4) 251-262 (1998), 2A1043
Comparison of cross-weld creep testing and service welds, Int J Pressure Vessels Piping **75**(5) 429-432 (Apr 1998), 2A1044
Gas metal arc welding control - II: Control strategy, Nonlinear Anal **35**(1) 85-93 (Jan 1999), 2T1045
Influence of shielding gas on notch toughness of stainless steel weld metals, Mat Manuf Processes **13**(4) 565-573 (1998), 2T1046
Modeling of GMA weld pools with consideration of droplet impact, J Eng Mat Tech **120**(4) 313-320 (Oct 1998), 2A1047
Predictive electrochemical model for weld metal hydrogen pickup in underwater wet welds, J Offshore Mech Arctic Eng **120**(4) 243-248 (Nov 1998), 2A1048
Relaxation of interface stresses during creep of ferritic steel weldments, J Strain Anal Eng Des **33**(3) 195-206 (May 1998), 2A1049
Underwater wet repair welding and strength testing on pipe-patch joints, J Offshore Mech Arctic Eng **120**(4) 237-242 (Nov 1998), 2A1050
Reduction of residual stress generated in metal-ceramic joining, Mat Manuf Processes **13**(4) 491-504 (1998), 2A1052
Characteristics of resistance welding of lap shear coupons - Part I: Heat transfer, Composites Part A Appl Sci and Manuf **29A**(8) 899-909 (1998), 2A1293
Characteristics of resistance welding of lap shear coupons - Part II: Consolidation, Composites Part A Appl Sci and Manuf **29A**(8) 911-919 (1998), 2A1294
Characteristics of resistance welding of lap-shear coupons - Part III: Crystallinity, Composites Part A Appl Sci and Manuf **29A**(8) 921-932 (1998), 2A1295
Mechanistic prediction of fracture processes in ferritic steel welds within the transition temperature regime, J Eng Mat Tech **120**(4) 328-337 (Oct 1998), 2A1497
Laser Welding (Wiley, New York, 1999) 3N19
Minimization of stress concentration factors in fatigue crack repairs, Int J Fatigue **20**(10) 719-725 (Nov 1998), 3A520
Effects of mechanical heterogeneity on plastic zones of welded three-point bend specimens, Int J Pressure Vessels Piping **75**(7) 575-580 (Jun 1998), 3A540
Design fatigue strength of TIG-dressed welded joints in high-strength steel subjected to spectrum loading, Int J Fatigue **20**(9) 677-681 (Oct 1998), 3A746
Influence of post weld treatments on the fatigue behavior of Al-alloy welded joints, Int J Fatigue **20**(10) 749-755 (Nov 1998), 3A750
Fatigue behavior of oblique nozzles on cylindrical shells submitted to internal pressure and axial forces, Int J Pressure Vessels Piping **75**(6) 473-481 (May 1998), 3A758
Analysis of the Type IV creep failures of three welded ferritic pressure vessels, Int J Pressure Vessels Piping **75**(6) 509-519 (May 1998), 3A766
Stress intensities at spot welds, Int J Fracture **88**(2) 167-185 (1997), 3A792
Estimation of resistance to ductile fracture of weldments at ambient and elevated temperatures from tensile tests, Int J Pressure Vessels Piping **75**(6) 489-498 (May 1998), 3A801
Fracture parameter for welded structures with residual stresses, Comput Mech **22**(3) 281-288 (Sep 1998), 3A843
Automated inspection of solder joints: A neural network approach, European J Mech Eng **43**(3) 129-135 (1998), 3A858
Introduction into the electron beam welding of austenitic 321-type stainless steel, J Mat Processing Tech **82**(1-3) 13-20 (Oct 1998), 3A996
Performance of welded joint under thickness-directional stress condition (Japanese), Proc JSCE **598**(I-44) 65-73 (Jul 1998), 3A997
Weld HAZ embrittlement of Nb containing C-Mn steels, Int J Pressure Vessels Piping **75**(9) 661-677 (Aug 1998), 4A788
Effect of mechanical heterogeneity and limit load of a weld joint with longitudinal weld crack on the J-integral and failure assessment curve, Int J Pressure Vessels Piping **75**(8) 625-632 (Jul 1998), 4A806
Two-parameter (J-M) description of crack tip stress-fields for an idealized weldment in small scale yielding, Int J Fracture **88**(4) 315-333 (1998), 4A814
Contrast mechanism of bond defects with the scanning acoustic microscopy, J Acoust Soc Am **104**(5) 2750-2755 (Nov 1998), 4A856
Review on special metal transfer modes in gas metal arc welding, J Brazilian Soc Mech Sci **20**(3) 465-478 (Sep 1998), 4A983
Effects of post-irradiation thermal annealing on radiation embrittlement behavior of Cr-Mo-V alloyed weld metals, Acta Polytech Scand Mech Eng **0**(132) 2-112 (1998), 4A1524
Creep of welded pipes, Proc Inst Mech Eng E **212**(E3) 171-182 (1998), 5A449
Simple estimating method for reduction of welding residual stresses in thick welded joint from stress-relief annealing - Part II: The characteristics of reduction of welding residual stresses in very thick joints during SR treatment, J Pressure Vessel Tech **121**(1) 11-16 (Feb 1999), 5A478
Influence of flux cored arc welded cruciform joint dimensions on fatigue life of ASTM 517 "F" grade steels, Int J Pressure Vessels Piping **75**(10) 765-772 (Aug 1998), 5A654
Failure analysis of a weld repaired steam turbine casing, Eng Failure Anal **5**(3) 205-218 (Sep 1998), 5A664
Fatigue strength reduction factors for welds based on nondestructive examination, J Pressure Vessel Tech **121**(1) 6-10 (Feb 1999), 5A666
Cleavage fracture criterion of low alloy steel and weld metal in notched specimens, Int J Fracture **89**(3) 269-284 (1998), 5A684
Definition of a "materials" database for heavy structures by experimental characterization of toughness-impact strength, Nucl Eng Des **185**(2-3) 203-219 (Oct 1998), 5A685
Effects of material strength mismatching on constraint at the limit load of welded three-point bend specimens, Int J Fracture **89**(2) 117-142 (1998), 5A705
Study on ductile fracture of the over-matched weldment with mechanical heterogeneity, Int J Pressure Vessels Piping **75**(10) 773-776 (Aug 1998), 5A712
Acoustic emission waveform analysis from weld defects in steel ring samples, J Pressure Vessel Tech **121**(1) 77-83 (Feb 1999), 5A754
Analysis for wrinkling behavior of girth-welded line pipe, J Offshore Mech Arctic Eng **121**(1) 53-61 (Feb 1999), 5A811
Computer simulation of 3D castellated solder joint geometry in surface mount technology, Model Simulation Mat Sci Eng **6**(5) 557-565 (Sep 1998), 5A873
Degradation of dissimilar explosively welded joints due to thermal ageing, Int J Pressure Vessels Piping **75**(10) 735-748 (Aug 1998), 5A874
Effect of welding conditions on residual stresses due to butt welds, Int J Pressure Vessels Piping **75**(12) 857-864 (Oct 1998), 5A875
Estimate of dynamic load for continuous drive friction welding (Chinese), J Xi'an Jiaotong Univ **32**(11) 91-94 (1998), 5A876
Measurement of the strength of micro bonded parts by a new testing machine of micro combined loads (Japanese), J Soc Mat Sci Japan **47**(9) 971-977 (Sep 1998), 5A877
Mixing behavior of the weld pool during GTA welding of aluminium-matrix composites, Sci Eng Comp Mat **7**(4) 323-327 (1998), 5A878
Temperature distribution during multipass welding of plates, Int J Pressure Vessels Piping **75**(12) 891-905 (Oct 1998), 5A879
Fracture analysis of the heat-affected zone in the NESC-1 spinning cylinder experiment, J Pressure Vessel Tech **121**(1) 1-5 (Feb 1999), 5A1511
Crack growth approach to life prediction of spot-welded lap joints, Fatigue Fracture Eng Mat Struct **21**(9) 1123-1132 (1998), 6A843
Influence of static strength of steel and weld material on fatigue strength of cruciform fillet welded joints (Japanese), Proc JSCE **605**(I-45) 289-293 (Oct 1998), 6A856
Notch intensity factor approach to the stress analysis of welds, Fatigue Fracture Eng Mat Struct **21**(9) 1089-1103 (1998), 6A896
Analysis of deformation of welded joints by real-time holographic interferometry, J Japan Soc Precision Eng **64**(11) 1623-1626 (Nov 1998), 6A1115
Determining the distribution of the heat content of filler metal droplets transferred into gas-metal arc weld pools, Proc Inst Mech Eng J Eng Manuf **212**(B7) 525-531 (1998), 6A1116
Fracture toughness of low carbon steels and their weldments, Int J Pressure Vessels Piping **75**(13) 945-950 (Nov 1998), 6A1117
Comparative studies on stresses in weld-bonded, spot-welded and adhesive-bonded joints, J Mat Processing Tech **87**(1-3) 230-236 (Mar 1999), 7A21
Bead instability in robotic vertical-up GMA welding, Sci Eng J (Ciencia Eng) **7**(2) 79-84 (Jul-Dec 1998), 7A417
New criterion for quality monitoring of pulsed laser spot welding using an infrared sensor - Part 1: The radiation feature as a criterion for quality monitoring, Proc Inst Mech Eng J Eng Manuf **213**(B1) 41-49 (1999), 7A441
New criterion for quality monitoring of pulsed laser spot welding using an infrared sensor - Part 2: Quality estimation using an artificial neural network, Proc Inst Mech Eng J Eng Manuf **213**(B1) 51-57 (1999), 7A442
Fatigue strength of welded transverse stiffener joints under variable amplitude loading, Int J Pressure Vessels Piping **75**(15) 1037-1045 (Dec 1998), 7A704
Arc interference and a unique push-pull arc solution in alternating current plasma arc welding of aluminium alloys, Proc Inst Mech Eng J Eng Manuf **213**(B1) 69-76 (1999), 7A928
Nonlinear dynamic analysis of surface mount interconnects - Part I: Theory, J Electron Packaging **121**(1) 8-11 (Mar 1999), 7A929
Nonlinear dynamic analysis of surface mount interconnects - Part II: Applications, J Electron Packaging **121**(1) 12-17 (Mar 1999), 7A930
OMPAC package C5 reliability: Parametric study, J Electron Packaging **121**(1) 18-22 (Mar 1999), 7A931
Weldability and stress corrosion resistance of WDL series steel with low susceptibility to weld cracking, Int J Pressure Vessels Piping **76**(1) 19-22 (Jan 1999), 7A932
Thermal cycling of temperature and strain rate dependent solder joints, Mech Time-Dependent Mat **2**(1) 59-83 (1998), 7A1417
Analysis of circular tubes under explosive welding (Chinese), J Xi'an Jiaotong Univ **33**(2) 64-66 (1999), 8A289
Experimental study of resistance welding of carbon fiber fabric reinforced polyetherimide (CF fabric-PEI) composite material, Appl Composite Mat **6**(1) 35-49 (Jan 1998), 8A577
Batch transfer of microstructures using flip-chip solder bonding, J Microelectromechanical Syst **8**(1) 27-33 (Mar 1999), 8T720
Fusion zone miscrostructures of laser and plasma welded dissimilar steel joints, Mat Manuf Processes **14**(1) 37-52 (1999), 8T725
Polymer adhesion by ultrasonic welding, J Adhesion Sci Tech **13**(2) 179-201 (1999), 8A949
Simulation of multipass welding of a thick plate, Int J Numer Methods Eng **44**(9) 1301-1316 (Mar 1999), 8A950
Static modeling of GMAW process using artificial neural networks, Mat Manuf Processes **14**(1) 13-35 (1999), 8T951
Modeling the deformation behavior of a Sn-Pb solder alloy using the simplified viscoplasticity theory based on overstress, J Electron Packaging **121**(2) 92-98 (Jun 1999), 9A593
Fatigue design of welded aluminum rectangular hollow section joints, Eng Failure Anal **6**(2) 113-130 (Apr 1999), 9A815
Fatigue life prediction of shielded metal arc welded cruciform joints containing LOP defects by a mathematical model, Int J Pressure Vessels Piping **76**(5) 283-290 (Apr 1999), 9A825
Application of local approach to inhomogeneous welds: Influence of crack position and strength mismatch, Eng Fracture Mech **62**(4-5) 445-462 (Mar 1999), 9A867
Premature fracture of a composite nylon radiator, Eng Failure Anal **6**(3) 181-195 (Jun 1999), 9A891
Micromechanical analysis of the ductile-brittle transition at a weld, Eng Fracture Mech **62**(4-5) 317-338 (Mar 1999), 9A913
Analytical derivation of the self-alignment motion of flip chip soldered components, J Electron Packaging **121**(2) 116-121 (Jun 1999), 9A1090
Effects of weld strength undermatch on fracture toughness of HAZ notched weldments in a HSLA steel, Int J Fracture **91**(4) 349-358 (1998), 9A1091
Optimizing the shielded metal arc welded cruciform joint dimensions of ASTM 517F grade steels containing LOP defects, Int J Pressure Vessels Piping **76**(3) 147-155 (Mar 1999), 9A1092
Susceptibility of 7050-T7451 electron beam welded specimens to stress corrosion, Eng Fracture Mech **62**(4-5) 463-476 (Mar 1999), 9A1093
Laser weld penetration estimation using temperature measurements, J Manuf Sci Eng **121**(2) 179-188 (May 1999), 9A1390
Deformation behavior of two lead-free solders: Indalloy 227 and Castin alloy, J Electron Packaging **121**(2) 99-107 (Jun 1999), 9A1416
Corrosion and mechanical strength of welded joints of downcomers for RBMK reactors, Int J Pressure Vessels Piping **76**(5) 299-307 (Apr 1999), 9A1515
Comparison of five evaluation methods of residual stress in a welded pipe joint, JSME Int J Ser A **42**(1) 104-110 (Jan 1999), 10A595
Friction welding of 6061 aluminum alloy pipe to S25C carbon steel pipe, Int J Offshore Polar Eng **8**(2) 144-147 (Jun 1998), 10A1061
Friction welding of aluminum alloy and steel, Int J Offshore Polar Eng **8**(2) 140-143 (Jun 1998), 10A1062
Numerical calculation for 2D heat transfer in keyhole laser welding, Chinese J Mech Eng **11**(3) 183-188 (Sep 1998), 10A1063
Model of thermomechanical process during welding of unbent plates with account for their relative displacements (Russian), Prikl Mekh (Appl Mech) **34**(12) 70-76 (1998), 10A1388
Characterization of gradients in mechanical properties of SA-533B steel welds using ball indentation, Int J Pressure Vessels Piping **76**(6) 361-369 (May 1999), 10A1582
Fracture toughness of austenitic welded joints, Int J Pressure Vessels Piping **76**(6) 393-400 (May 1999), 10A1583
Fatigue performance of tungsten inert gas (TIG) and plasma welds in thin sections, Int J Fatigue **21**(6) 587-601 (Jul 1999), 11A741
Determination of the mode I stress intensity factors for an edge-cracked beam with fixed ends, Eng Fracture Mech **63**(2) 193-208 (May 1999), 11A784
Stress intensity factors for a semi-elliptical surface crack in a T-shaped geometry - Part 1: Tension and bending results, J Strain Anal Eng Des **34**(3) 147-155 (May 1999), 11A791
Stress intensity factors for a semi-elliptical surface crack in a T-shaped geometry - Part 2: Approximate solutions at the deepest point for arbitrary crack-face loading, J Strain Anal Eng Des **34**(3) 157-163 (May 1999), 11A792
Application of response surface methodology for predicting weld bead quality in submerged arc welding of pipes, J Mat Processing Tech **88**(1-3) 266-275 (Apr 1999), 11A1009
Fatigue strength of welded joints in girder flanges of railway bridges (Polish), Inzynieria Budownictwo **54**(10) 574-577 (1998), 11T1010
Microtensile properties of weld metal, Exp Tech **23**(3) 31-34 (May-Jun 1999), 11A1011
Modeling, optimization and classification of weld quality in tungsten inert gas welding, Int J Machine Tools Manuf **39**(9) 1427-1438 (Sep 1999), 11A1012
Physical and thermal processes during electron beam welding, Mat Manuf Processes **14**(3) 331-345 (1999), 11A1013
Catastrophic failure of a polypropylene tank - Part I: Primary investigation, Eng Failure Anal **6**(4) 197-214 (Aug 1999), 12A797
Note on the limit load of welded joints of a rectangular cross-section, Fatigue Fracture Eng Mat Struct **22**(5) 449-452 (1999), 12A887
From a local stress approach to fracture mechanics: A comprehensive evaluation of the fatigue strength of welded joints, Fatigue Fracture Eng Mat Struct **22**(5) 369-381 (1999), 12A1017
Dynamic model for condition monitoring of a high-power CO_2 industrial laser, J Dyn Syst Meas Control **121**(2) 157-164 (Jun 1999), 12A1279

298D. Interfacial bonding

Internal variable theory of adhesion, J Adhesion Sci Tech **12**(8) 856-887 (1998), 1A536
Two-dimensional stress analysis of single-lap adhesive joints subjected to external bending moments, J Adhesion Sci Tech **12**(8) 795-812 (1998), 1A539
Excimer laser surface treatment of sheet molding compound for adhesive bonding, Mat Manuf Processes **13**(3) 359-368 (1998), 1A817
Optimization of the stiffness of glued laminated timber beams with respect to the technology of fabrication and creep parameters, Appl Mech Eng **2**(3) 433-443 (1997), 1T960
Analysis of free-edge stress and displacement fields in scarf joints subjected to a uniform change in temperature, Fatigue Fracture Eng Mat Struct **21**(6) 687-703 (1998), 1A1072
Mechanical modeling of adhesion and adherence between two solids, European J Appl Math **9**(3) 305-326 (Jun 1998), 1A1073
Random change of vibration modes in thermosonic bonding, J Electron Packaging **120**(3) 253-258 (Sep 1998), 1A1074
Fracture load predictions for adhesive joints under mixed mode I-II-III loading, J Composite Tech Res **20**(3) 187-197 (Jul 1998), 2A875

Effect of interfacial carbon on adhesion and toughness of gold-sapphire interfaces, Acta Mat **46**(13) 4835-4850 (Aug 1998), 2A884
Nature of bonding between monofilament polyethylene yarns and cement matrices, Cement & Concrete Composites **20**(4) 319-327 (1998), 2A1051
Reduction of residual stress generated in metal-ceramic joining, Mat Manuf Processes **13**(4) 491-504 (1998), 2A1052
Elastoplastic FE stress analysis and strength evaluation of adhesive lap joints of hollow shafts subjected to tensile loads, J Adhesion Sci Tech **12**(9) 907-922 (1998), 3A34
Adhesively-bonded repairs to fiber-composite materials - I: Experimental, Composites Part A Appl Sci and Manuf **29A**(11) 1371-1381 (1998), 3A553
Adhesively-bonded repairs to fiber-composite materials - II: FE modeling, Composites Part A Appl Sci and Manuf **29A**(11) 1383-1396 (1998), 3A554
Measurement of adhesive joint fracture properties as a function of environmental degradation, Int J Adhesion Adhesives **18**(4) 237-246 (Aug 1998), 3A827
Analysis of the friction welding process in relation to the welding of copper and steel bars, J Mat Processing Tech **82**(1-3) 127-136 (Oct 1998), 3A998
Cracking and loss of adhesion of Si_3N_4 and SiO_2:P films deposited on Al substrates, J Adhesion Sci Tech **12**(11) 1219-1242 (1998), 3A999
Effect of fibrilation on the tack of pressure sensitive adhesives, Int J Adhesion Adhesives **18**(4) 265-271 (Aug 1998), 3A1000
Evaluation of the bond strength of hard coatings by the contact fatigue test, J Adhesion Sci Tech **12**(10) 1055-1069 (1998), 3A1001
Experimental investigation of failure initiation in bonded joints, Acta Mat **46**(14) 4895-4904 (Sep 1998), 3A1002
Hygrothermal effects on the strength of adhesively bonded joints, J Adhesion Sci Tech **12**(11) 1253-1275 (1998), 3A1003
Influence of a monofunctional acid-base environment on peel mechanics, J Adhesion Sci Tech **12**(10) 1091-1103 (1998), 3A1004
International collaborative program on organosilane coupling agents: An introduction, Int J Adhesion Adhesives **18**(4) 261-264 (Aug 1998), 3A1005
Kinetics of peeling of an adhesive tape at imposed applied load, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **321**(10) 393-399 (Nov 1995), 3A1006
New impact specimen for adhesives: Optimization of high-speed-loaded adhesive joints, Int J Adhesion Adhesives **18**(4) 255-260 (Aug 1998), 3A1007
New tensile rupture test for the mechanical characterization of an adhesively-bonded structural ceramic assembly, J Adhesion Sci Tech **12**(10) 1029-1043 (1998), 3A1008
Study of the adhesion between hydraulic mortars and concrete, J Adhesion Sci Tech **12**(11) 1243-1251 (1998), 3A1009
Surface modification of high density polyethylene and polypropylene by DC glow discharge and adhesive bonding to steel, J Adhesion Sci Tech **12**(11) 1181-1204 (1998), 3A1010
Study on heat flow and temperature monitoring in the laser brazing of a pin-to-plate joint, J Mat Processing Tech **82**(1-3) 53-60 (Oct 1998), 3A1291
Measurement of the strength of micro bonded parts by a new testing machine of micro combined loads (Japanese), J Soc Mat Sci Japan **47**(9) 971-977 (Sep 1998), 5A877
Adhesion of polymer coils to a solid surface: Influence of the depletion effect, J Adhesion Sci Tech **12**(12) 1355-1360 (1998), 5A880
Calorimetric investigation of autoacceleration in the metal-catalyzed cure of anaerobic adhesives, J Adhesion Sci Tech **12**(12) 1281-1297 (1998), 5A881
Durability of steel-polymer adhesion in an aqueous environment, Int J Adhesion Adhesives **18**(5) 365-369 (Oct 1998), 5A882
Influence of profile's shape of adherend surface on strength of adhesive bonding, J Japan Soc Precision Eng **64**(10) 1492-1496 (Oct 1998), 5T883
Rheological modeling of the peeling of pressure-sensitive adhesives and other elastomers, Int J Adhesion Adhesives **18**(5) 333-343 (Oct 1998), 5A884
Substrate stress concentrations in bonded lap joints, J Strain Anal Eng Des **33**(5) 331-346 (Sep 1998), 5A885
Interface molecular engineering of carbon-fiber composites, Composites Part A Appl Sci and Manuf **30A**(1) 49-57 (1999), 6A592
Damage zone model for the failure analysis of adhesively bonded joints, Int J Adhesion Adhesives **18**(6) 385-400 (Dec 1998), 6A922
Confined compression of elastic adhesives at high rates of strain, Int J Adhesion Adhesives **18**(6) 375-383 (Dec 1998), 6A1118
Post-adhesive yield carrying capacity of single lap joints with voids, J Adhesion Sci Tech **13**(1) 49-63 (1999), 6A1119
Use of silane coupling agents to enhance the performance of adhesively bonded alumina to resin hybrid composites, Int J Adhesion Adhesives **18**(6) 431-434 (Dec 1998), 6A1120
Weld spot force evaluation with dented sheet material, Eng Fracture Mech **61**(5-6) 673-678 (Nov-Dec 1998), 6A1121
Interface debonding in fiber reinforced cement-matrix composites, J Composite Mat **33**(2) 158-176 (1999), 7A531
Intrinsic toughness and adhesion mechanisms of a glass-epoxy interface, J Mech Phys Solids **47**(2) 223-258 (Feb 1999), 7A541
Nondestructive evaluation of interlaminar bonding for *in situ* consolidation of polymer composites, J Composite Mat **33**(2) 124-157 (1999), 7A800
Characterizing the failure envelope of a conductive adhesive, J Electron Packaging **121**(1) 23-30 (Mar 1999), 7A933
Finite strip loaded by a bonded-rivet of a different material, Comput Struct **70**(2) 203-218 (Jan 1999), 7A934
Nonlinear analysis of adhesively bonded lap joint considering viscoplasticity in adhesives, Comput Struct **70**(4) 387-413 (Feb 1999), 7A935
Wetting and bonding of Ni-Si alloys on silicon carbide, Acta Mat **47**(2) 461-473 (Jan 1999), 7A936
Simulation of micro-manipulations: Adhesion forces and specific dynamic models, Int J Adhesion Adhesives **19**(1) 35-48 (Feb 1999), 8A469
Adhesively bonded repairs to primary aircraft structure, Int J Adhesion Adhesives **19**(1) 1-8 (Feb 1999), 8A613
Assessing stress state and mean load effects on the fatigue response of adhesively bonded joints, Int J Adhesion Adhesives **19**(1) 19-27 (Feb 1999), 8A737
Role of interface modification on the Mode I and Mode II fracture behavior of glass fabric-vinyl ester composites, Mat Manuf Processes **14**(1) 97-106 (1999), 8T792
Enhancing adhesion properties between rubber compound and brass-plated steel cord by incorporating silica into rubber, J Adhesion Sci Tech **13**(2) 153-168 (1999), 8A952
Influence of bondline brittleness and defects on the strength of timber finger-joints, Int J Adhesion Adhesives **19**(1) 9-17 (Feb 1999), 8A953
Mesoscopic scale analysis of the reaction-bonded SiC process, Composites Part A Appl Sci and Manuf **30A**(3) 339-348 (1999), 8A954
Substrate volume and stress gradient concepts in mechanical adhesion: Analysis of single straight sections, J Adhesion Sci Tech **13**(2) 237-271 (1999), 8A955
Synthesis and characterization of high performance polymeric hybrid siliconized epoxy composites for aerospace applications, Mat Manuf Processes **14**(1) 67-83 (1999), 8T956
Two-dimensional FE thermal stress analysis of adhesive butt joints containing some hole defects, J Adhesion Sci Tech **13**(3) 309-323 (1999), 8A957
Failure estimation of semiconductor chip during wire bonding process, J Electron Packaging **121**(2) 85-91 (Jun 1999), 9A1094
Role of primary aromatic amines in adhesion in polyethylene-steel systems, Polymers and Polymer Composites **6**(8) 523-533 (1998), 9A1095
Fundamental solution for a prismatic dislocation loop in a two-phase transversely isotropic elastic material considering interfacial energy, JSME Int J Ser A **41**(4) 465-472 (Oct 1998), 10A598
Effects of a pulsed XeCl excimer laser on ultra-high strength polyethylene fiber and its interface with epoxy resin, J Adhesion Sci Tech **13**(4) 501-516 (1999), 10A628
Evaluation of impact shear strength of adhesive joints with the split Hopkinson bar, JSME Int J Ser A **41**(4) 503-509 (Oct 1998), 10A949
Adhesive contact and kinetics of adherence between a rigid flat-ended sphere and a soft elastomeric solid (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 399-406 (Apr 1999), 10A1064
Analysis and tests of bonded insulated rail joints subjected to vertical wheel loads, Int J Mech Sci **41**(10) 1253-1272 (Oct 1999), 10A1065
Axisymmetric stress analysis and strength of bonded shrink-fitted joints of solid shaft subjected to torsional loading, JSME Int J Ser A **41**(4) 517-524 (Oct 1998), 10A1066
Axisymmetric stress analysis and strength of bonded shrink-fitted joints subjected to push-off forces, JSME Int J Ser A **40**(4) 362-374 (Oct 1997), 10A1067
Diffusion bonding of CMSX-4 to UDIMET 720 using PVD-coated interfaces and HIP, J Eng Gas Turbines Power **121**(3) 489-493 (Jul 1999), 10A1068
Effect of the environment on the measured values of the adhesion of polyimide to silicon, J Adhesion Sci Tech **13**(4) 423-436 (1999), 10A1069
Environmental attack on adhesive joints - Part II: Locus of failure, JSME Int J Ser A **41**(3) 395-404 (Jul 1998), 10A1070
Environmental attack on adhesive joints - Part III: Mechanisms of failure, JSME Int J Ser A **41**(3) 405-415 (Jul 1998), 10A1071
Environmental attack on adhesive joints - Part I: Test equipment, JSME Int J Ser A **41**(2) 231-242 (Apr 1998), 10A1072
Strength of joints combining adhesives with bolts - Case where adherends are pipe flanges of which the interfaces are bonded partially, JSME Int J Ser A **42**(1) 126-134 (Jan 1999), 10A1073
Fiber-cement interface tailoring with plasma treatment, Cement & Concrete Composites **21**(3) 205-212 (1999), 11A527
Adhesion of latex films - Part II: Loci of failure, J Adhesion Sci Tech **13**(5) 593-614 (1999), 11A1014
Effect of interface shape on the strength for carbon steel-PMMA adhered joint (Japanese), J Soc Mat Sci Japan **48**(3) 264-268 (Mar 1999), 11A1015
Effects of nitrogen plasma treatment of pressure-sensitive adhesive layer surfaces on their peel adhesion layer, J Adhesion Sci Tech **13**(5) 573-592 (1999), 11A1016
Joint elements, stress post-processing and superconvergent extraction with application to Mohr-Coulomb failure, Commun Numer Methods Eng **15**(5) 335-347 (May 1999), 11A1017
Mathematical analysis of a bonded joint with a soft thin adhesive, Math Mech Solids **4**(2) 201-225 (Jun 1999), 11A1018
Relationship between rheology and morphology of modified adhesives, Appl Mech Eng **4**(S) 333-338 (1999), 11T1019
Bonded joints with nonhomogeneous adhesives, J Elast **53**(1) 23-35 (1998), 12A580
Thermoplastic polyurethane-fumed silica composites: Influence of the specific surface area of fumed silica on the viscoelastic and adhesion properties, J Adhesion Sci Tech **13**(6) 695-711 (1999), 12A594
Stress-strain analysis of a taper-taper adhesive-bonded joint under cylindrical bending, J Eng Mat Tech **121**(3) 374-380 (Jul 1999), 12A629
Joining of TiB_2-Al_2O_3 using compositionally graded interlayers, Mat Manuf Processes **14**(4) 537-546 (1999), 12T747
Stress singularity approach for the prediction of fatigue crack initiation in adhesive bonds - Part 1: Theory, J Adhesion **70**(1-2) 119-138 (May 1999), 12A756
Stress singularity approach for the prediction of fatigue crack initiation in adhesive bonds - Part 2: Experimental, J Adhesion **70**(1-2) 139-154 (May 1999), 12A757
Nondestructive characterization of adhesive joint durability using ultrasonic reflection measurements, Res Nondestructive Eval **11**(2) 81-95 (1999), 12A872
Direct measurement of longitudinal strains and stresses within single lap shear adhesive joints using neutron diffraction, J Adhesion **70**(1-2) 1-11 (May 1999), 12A1018
Fundamental understanding in rolling ball tack of tackified block copolymer adhesives, J Adhesion **70**(1-2) 95-118 (May 1999), 12A1019
Influence of surfactants on the peel strength of water-based pressure sensitive adhesives, J Adhesion **70**(1-2) 179-195 (May 1999), 12A1020
Interfacial interaction and peel adhesion between polyamide and acrylate rubber in thermoplastic elastomeric blends, J Adhesion Sci Tech **13**(6) 649-668 (1999), 12A1021
Special issue: Aircraft repairs, Int J Adhesion Adhesives **19**(2-3) 91-242 (Apr-Jun 1999), 12T1022
Strength of adhesively-bonded butt joints of tubes subjected to combined high-rate loads, J Adhesion **70**(1-2) 57-73 (May 1999), 12A1023
Stress analysis and strength evaluation of single-lap band adhesives joints subjected to external bending moments, J Adhesion Sci Tech **13**(6) 729-749 (1999), 12A1024
Theoretical and experimental analysis of the scarf joint bonded structure: Influence of the adhesive thickness on the micro-mechanical behavior, J Adhesion **70**(1-2) 13-32 (May 1999), 12A1025
Two-dimensional transient thermal stress analysis of adhesive butt joints, J Adhesion **70**(1-2) 75-93 (May 1999), 12A1418

V. MECHANICS OF FLUIDS

350. RHEOLOGY

350B. Continuum theory

Study on the rheological behavior of polymer metals and concentrated solutions, Appl Mech Eng **2**(4) 475-510 (1997), 1A548
Molecular dynamics simulation of ultra-thin lubricating films, Proc Inst Mech Eng J: Eng Trib **212**(J3) 165-170 (1998), 1T1075
Rheology of diulte suspensions of Brownian dipolar axisymmetric particles, J Fluid Mech **366** 289-310 (Jul 1998), 1A1076
Fluid Mechanics of Viscoelasticity (Elsevier Sci BV, Netherlands, 1997) 3R14
Thermodynamics and Rheology (Kluwer, Netherlands, 1997) 3R25
Fourier-transform rheology, Rheol Acta **37**(4) 399-405 (Aug 1998), 3A1011
Thermal diffusion of dilute polymer solutions, Rheol Acta **37**(4) 406-413 (Aug 1998), 3A1012
Quantitative modeling of HDPE spurt experiments using wall slip and generalized Newtonian flow, J Non-Newtonian Fluid Mech **79**(2-3) 503-514 (Nov 1998), 4A992
Longitudinal and torsional oscillations of a rod in a viscoelastic fluid, Rheol Acta **37**(5) 508-511 (Oct 1998), 5A886
Model for slip at polymer-solid interfaces, J Rheol **42**(6) 1491-1504 (Nov-Dec 1998), 5A887
Modeling of a PIB-PB Boger fluid in extensional flow, J Non-Newtonian Fluid Mech **80**(2-3) 155-182 (Jan 1999), 5A897
"Volume preserving" rheological models for polymer melts and solutions using the GENERIC formalism, J Rheol **43**(1) 51-72 (Jan-Feb 1999), 6A1122
Model for cytoplasmic rheology consistent with magnetic twisting cytometry, Biorheol **35**(3) 193-209 (May-Jun 1998), 6A1123
Prediction of the large-strain mechanical response of heterogeneous polymer systems: Local and global deformation behavior of a representative volume element of voided polycarbonate, J Mech Phys Solids **47**(2) 201-221 (Feb 1999), 7A5
Brownian dynamics simulations of a DNA molecule in an extensional flow field, J Rheol **43**(2) 267-304 (Mar-Apr 1999), 8A958
Slip of Newtonian fluids at slid boundary, JSME Int J Ser B **41**(3) 525-529 (Aug 1998), 8T959
Theoretical study on equation of motion and yield stress of electrorheological fluid, JSME Int J Ser B **40**(4) 521-528 (Nov 1997), 8A1218
IUTAM Symposium on Rheology of Bodies with Defects (Kluwer, Netherlands, 1998) 9N36
Dynamics of quantum vortices in superfluid ^{4}He, Arch Mech **50**(3) 467-482 (1998), 10T1074
Generalized Weber and Clebsch transformations, Arch Mech **50**(3) 645-655 (1998), 10A1075
Tumbling dynamics in a nematic surfactant solution in transient shear flows, J Rheol **43**(3) 765-779 (May-Jun 1999), 10A1076
Capillary thinning of polymeric filaments, J Rheol **43**(3) 609-625 (May-Jun 1999), 10A1098
Modified hybrid closure approximation for prediction of flow-induced fiber orientation, J Rheol **43**(3) 569-589 (May-Jun 1999), 10A1135
Well-posedness of the problem of fiber suspension flows, J Non-Newtonian Fluid Mech **83**(3) 205-230 (Jul 1999), 11A1041
Consistent thin-layer theory for Bingham plastics, J Non-Newtonian Fluid Mech **84**(1) 65-81 (Jul 1999), 12A1026
Theoretical modeling of fluid S1: A comparative study of constitutive models in sample and complex flows, J Non-Newtonian Fluid Mech **85**(2-3) 107-125 (Aug 1999), 12T1047

350C. Kinetic and statistical theory

Extended smoluchowski models for interpreting relaxation phenomena in liquids, Acta Phys Polonica B **B29**(6) 1749-1789 (Jun 1998), 2A1053
Direct analysis of particulate suspensions with inertia using the discrete Boltzmann equation, J Fluid Mech **373** 287-311 (Oct 1998), 5T1002
Smoothed particle hydrodynamics techniques for the solution of kinetic theory problems - Part 2: The effect of flow perturbations on the simple shear behavior of LCPs, J Non-Newtonian Fluid Mech **82**(1) 25-55 (Apr 1999), 7T937
Dynamics of non-Brownian rodlike particles in a non-uniform elongational flow, Phys Fluids **11**(4) 773-777 (Apr 1999), 8T960
Application of curves of current tixotropic structured systems, Appl Mech Eng **4**(S) 231-236 (1999), 11T1020
Simulation of fiber suspension flows by the Brownian configuration field method, J Non-Newtonian Fluid Mech **84**(2-3) 257-274 (Aug 1999), 12A1038

350D. Non-Newtonian fluids

Thermodynamics of rate-type fluids and phase transitions - I: Rate-type fluids, Int J Eng Sci **36**(9) 921-947 (Jul 1998), 1A1077
Thermodynamics of rate-type fluids and phase transitions - II: Phase transitions, Int J Eng Sci **36**(9) 949-971 (Jul 1998), 1A1078
Extensional deformation of non-Newtonian liquid bridges, Comput Mech **21**(6) 461-476 (Jun 1998), 1A1119
Extrudate swell behavior of polyethylenes: Capillary flow, wall slip, entry-exit effects and low-temperature anomalies, J Rheol **42**(5) 1075-1094 (Sep-Oct 1998), 3A1013
Fluid inertia in large amplitude oscillatory shear, Rheol Acta **37**(4) 365-373 (Aug 1998), 3A1014

Shear-induced mixing and demixing in poly(styrene-co-maleic anhydride)-poly(methyl methacrylate) blends, J Rheol **42**(5) 1227-1247 (Sep-Oct 1998), 3A1015
Thermodynamics of viscoelastic fluids: The temperature equation, J Rheol **42**(5) 999-1019 (Sep-Oct 1998), 3A1221
Model for slip at polymer-solid interfaces, J Rheol **42**(6) 1491-1504 (Nov-Dec 1998), 5A887
Effect of molecular mass and temperature on the slip of polystyrene melts at low stress levels, J Rheol **42**(6) 1505-1517 (Nov-Dec 1998), 5A888
Existence of solutions for non-stationary third-grade fluids, Int J Non-Linear Mech **34**(3) 485-498 (May 1999), 5A889
Fast flow behavior of highly entangled monodisperse polymers - 1: Interfacial stick-slip transition of polybutadiene melts, Rheol Acta **37**(5) 415-423 (Oct 1998), 5A890
Fast flow behavior of highly entangled monodisperse polymers - 2: Barrel correction, hysteresis and self-oscillation in capillary flow of PB, Rheol Acta **37**(5) 424-429 (Oct 1998), 5A891
Influence of elastic properties on drop deformation and breakup in shear flow, J Rheol **42**(6) 1477-1490 (Nov-Dec 1998), 5A892
Linear viscoelastic properties of sucrose ester-stabilized oil-in-water emulsions, J Rheol **42**(6) 1375-1388 (Nov-Dec 1998), 5A893
Relevance of entry flow measurements for the estimation of extensional viscosity of polymer melts, Rheol Acta **37**(5) 430-437 (Oct 1998), 5A894
Rheological phenomena occurring during the shearing flow of mayonnaise, J Rheol **42**(6) 1537-1553 (Nov-Dec 1998), 5A895
Wall slip of a polydimethylsiloxane extruded through a slit die with rough steel surfaces: Micrometric measurement at the wall with fluorescent-labeled chains, J Rheol **42**(6) 1389-1402 (Nov-Dec 1998), 5A896
Discernment of non-Newtonian behavior in liquid by acoustic means, Rheol Acta **37**(6) 593-600 (Dec 1998), 6A1124
Existence and uniqueness of flows multipolar fluids of grade 3 and their stability, Int J Eng Sci **37**(1) 75-96 (Jan 1999), 6A1125
Flow of Robertson-Stiff fluids through an eccentric annulus, Appl Math Mech **19**(10) 1007-1016 (Oct 1998), 6A1126
Impact of viscoelasticity on gage variation in film casting, J Rheol **43**(1) 73-83 (Jan-Feb 1999), 6A1127
Implicit solution of Bi-penalty approximation with orthogonality projection for the numerical simulation of Bingham fluid flow, Appl Math Mech **19**(8) 725-734 (Aug 1998), 6A1128
Viscoelastic behavior of cubic phases in block copolymer melts, J Rheol **43**(1) 167-196 (Jan-Feb 1999), 6A1129
Visual observation of development of sharkskin melt fracture in polybutadiene extrusion, Rheol Acta **37**(6) 573-582 (Dec 1998), 6A1130
Yield stress - a review or "παντα ρει" - everything flows?, J Non-Newtonian Fluid Mech **81**(1-2) 133-178 (Feb 1999), 6A1132
One dimensional simplification in modeling some basic polymer processing operations - I: Extrudate swell and fiber melt spinning, Rheol Acta **37**(6) 601-613 (Dec 1998), 6A1198
Three-dimensional viscoelastic numerical analysis of the encapsulation phenomena in coextrusion, Rheol Acta **37**(6) 624-634 (Dec 1998), 6A1199
Effective behavior and dynamic response modeling of electro-rheological and magneto-rheological fluid composites, Smart Mat Struct **8**(1) 106-115 (Feb 1999), 8A961
Generalized solutions to the equations of compressible Bingham flows, Z Angew Math Mech **79**(3) 185-192 (1999), 8A962
Self-oscillations in capillary flow of entangled polymers, J Rheol **43**(2) 453-460 (Mar-Apr 1999), 8A963
Variational methods for fluids of Prandtl-Eyring type and plastic materials with logarithmic hardening, Math Methods Appl Sci **22**(4) 317-351 (Mar 1999), 8A964
Analysis of heat and mass transfer of a viscoelastic, electrically conducting fluid past a continuous stretching sheet, Nonlinear Anal **36**(6) 767-784 (Jun 1999), 9T1096
Quantitative characterization of porous materials in polymer processing, Composites Sci Tech **59**(4) 495-504 (Mar 1999), 9A1097
Research on behaviors of electrorheological fluid-based semiactive robot fingertips, Chinese J Mech Eng **11**(2) 96-101 (Jun 1998), 10A481
Determination of yield surfaces in Herschel-Bulkley fluids, J Rheol **43**(3) 463-483 (May-Jun 1999), 10A1077
Flow development of Herschel-Bulkley fluids in a sudden 3-D square expansion, J Rheol **43**(3) 485-498 (May-Jun 1999), 10A1078
Novel processing aid for polymer extrusion: Rheology and processing of polyethylene and hyperbranched polymer blends, J Rheol **43**(3) 781-793 (May-Jun 1999), 10A1079
Stationary problem of second-grade fluids in three dimensions: Existence, uniqueness and regularity, Math Methods Appl Sci **22**(8) 655-687 (May 1999), 10A1080
Additive method for determination of flowrate of viscoplastic fluids in annuli, Appl Mech Eng **4**(S) 103-108 (1999), 11T1021
Structure-phenomenological rheology of suspensions in fluids with cross viscosity, Appl Mech Eng **4**(S) 27-32 (1999), 11T1022
Comparison of the polymer solutions data from various measurements, Appl Mech Eng **4**(S) 191-196 (1999), 11T1051
Extensional and shearing flow of a glass-mat-reinforced thermoplastics material as a non-Newtonian viscous fluid, Composites Sci Tech **59**(9) 1399-1410 (Jul 1999), 12A618
Simulations and applications of injection-compression molding, J Reinforced Plastics Composites **18**(8) 724-734 (1999), 12A749
Three-dimensional resin transfer molding: Isothermal process modeling and implicit tracking of moving fronts for thick, geometrically complex composites manufacturing applications - Part 2, Numer Heat Transfer A **35**(8) 839-858 (Jun 1999), 12A1090
Three-dimensional resin transfer molding: Isothermal process modeling and explicit tracking of moving fronts for thick geometrically complex composites manufacturing applications - Part 1, Numer Heat Transfer A **35**(8) 815-838 (Jun 1999), 12A1098

350E. Dynamic properties (recoil and stress relaxation)

Structure and rheology of heat-set gels of globular proteins - I: Bovine serum albumin gels in isoelectric conditions, Rheol Acta **37**(4) 345-357 (Aug 1998), 3A1016
Reduction of viscous extrusion stresses and extrudate swell computation using slippery exit surfaces, J Non-Newtonian Fluid Mech **79**(2-3) 599-617 (Nov 1998), 4A724
Asymptotic results for high rates of strain, J Non-Newtonian Fluid Mech **79**(2-3) 297-313 (Nov 1998), 4A984
Axisymmetric entry flow of semi-dilute xanthan gum solutions: Prediction and experiment, J Non-Newtonian Fluid Mech **79**(2-3) 105-136 (Nov 1998), 4T985
Extensional deformation, stress relaxation and necking failure to viscoelastic filaments, J Non-Newtonian Fluid Mech **79**(2-3) 469-501 (Nov 1998), 4A986
Pressure dependence of the shear and elongational properties of polymer melts, J Non-Newtonian Fluid Mech **79**(2-3) 137-155 (Nov 1998), 4A987
Transient extensional rheology and the influence of strain history, J Non-Newtonian Fluid Mech **79**(2-3) 213-223 (Nov 1998), 4A988
Modeling of a PIB-PB Boger fluid in extensional flow, J Non-Newtonian Fluid Mech **80**(2-3) 155-182 (Jan 1999), 5A897
Nonlinear rheology for threadlike micelles of tetraethylammonium perfluorooctyl sulfonate, Rheol Acta **37**(5) 470-485 (Oct 1998), 5A898
Nonlinear shear and extensional rheology of long-chain randomly branched polybutadiene, J Rheol **42**(6) 1303-1327 (Nov-Dec 1998), 5A899
Relaxation modes of molten polydimethylsiloxane, Rheol Acta **37**(5) 449-462 (Oct 1998), 5A900
Sensitivity analysis of the Bagley correction to shear and extensional rheology, Rheol Acta **37**(5) 438-448 (Oct 1998), 5A901
Viscoelasticity of a dielectric fluid in nonuniform electric fields generated by electrodes with flocked fabrics, Rheol Acta **37**(5) 500-507 (Oct 1998), 5A902
Viscoelasticity of low molecular weight polymers and the transition to the entangled regime, Rheol Acta **37**(5) 486-499 (Oct 1998), 5A903
Deformation and break-up of thermotropic copolyester droplets in a molten polypropylene matrix subjecting to oscillatory simple shear and entry flow, J Non-Newtonian Fluid Mech **80**(2-3) 199-216 (Jan 1999), 5A913
Measuring uniaxial extensional viscosity using a modified rotational rheometer, J Non-Newtonian Fluid Mech **80**(2-3) 183-197 (Jan 1999), 5A921
Transient response of electrorheological effect to a step field in an immiscible polymer blend: Second mode in type I blend, J Rheol **43**(1) 137-146 (Jan-Feb 1999), 6A1131
Yield stress - a review or "παντα ρει" - everything flows?, J Non-Newtonian Fluid Mech **81**(1-2) 133-178 (Feb 1999), 6A1132
Determination of shear rate and viscosity from batch mixer data, J Rheol **43**(2) 415-433 (Mar-Apr 1999), 8A965
Rheological properties of two polypropylenes with different molecular structures, J Rheol **43**(2) 359-374 (Mar-Apr 1999), 8A966
Shear elasticity and yield stress of silica-silicone physical gels: Fractal approach, J Rheol **43**(2) 305-314 (Mar-Apr 1999), 8A967
Singular behavior of Rouse-like spectra, J Rheol **43**(2) 327-337 (Mar-Apr 1999), 8A968
State diagrams of soy globulins, J Rheol **43**(2) 315-325 (Mar-Apr 1999), 8A969
Steady-state behavior of dilute polymers in elongational flow - Dependence of the critical elongational rate on chain length, hydrodynamic interaction, and excluded volume, J Rheol **43**(2) 339-358 (Mar-Apr 1999), 8A970
Bulk crosslinking of diallyl phthalate monomers, J Rheol **43**(3) 499-519 (May-Jun 1999), 10A1081
Linear response of regular asphalts to external harmonic fields, J Rheol **43**(3) 719-734 (May-Jun 1999), 10A1082
New technique allowing the quantification of diffusion at polymer-polymer interfaces using rheological analysis: Theoretical and experimental results, J Rheol **43**(3) 551-568 (May-Jun 1999), 10A1083
Steady shear and dynamic rheological properties of xanthan gum solutions in viscous solvents, J Rheol **43**(3) 627-650 (May-Jun 1999), 10A1084
Transient non-uniform extensional flows realized in certain types of rheometers, J Non-Newtonian Fluid Mech **83**(1-2) 151-161 (Jun 1999), 10A1101
Dynamics of viscoelastic model with non-monotone flow curve, Appl Mech Eng **4**(S) 21-26 (1999), 11T1023
Large-scale relaxation processes and translational mobility of macromolecules in orientational ordered polymer systems, Appl Mech Eng **4**(S) 79-84 (1999), 11T1024
Relaxation spectrum or polysiloxane composition-description of an algorithm and sample results, Appl Mech Eng **4**(S) 271-275 (1999), 11T1025
Three-dimensional volume tracking model of droplet impact, Phys Fluids **11**(6) 1406-1417 (Jun 1999), 11A1026
Viscoelastic behavior of polymerizing systems, Rheol Acta **38**(1) 84-89 (May 1999), 11A1027
Deformation of a viscoelastic drop subjected to steady uniaxial extensional flow of a Newtonian fluid, J Non-Newtonian Fluid Mech **85**(2-3) 127-163 (Aug 1999), 12A585
Assessment of compliance and stress-relaxation data for polystyrene, J Rheol **43**(4) 967-976 (Jul-Aug 1999), 12A1027
Comparison of entry flow techniques for measuring elongation flow properties, J Non-Newtonian Fluid Mech **85**(2-3) 213-227 (Aug 1999), 12A1028
Shape recovery of a dispersed droplet phase and stress relaxation after application of step shear strains in a polystyrene-polycarbonate blend melt, J Rheol **43**(4) 951-965 (Jul-Aug 1999), 12A1029
Transition to shear banding in pipe and Couette flow of wormlike micellar solutions, J Rheol **43**(4) 897-909 (Jul-Aug 1999), 12A1030

350F. Volume viscosity

Asymptotic results for high rates of strain, J Non-Newtonian Fluid Mech **79**(2-3) 297-313 (Nov 1998), 4A984
Pressure dependence of the shear and elongational properties of polymer melts, J Non-Newtonian Fluid Mech **79**(2-3) 137-155 (Nov 1998), 4A987
Determination of shear rate and viscosity from batch mixer data, J Rheol **43**(2) 415-433 (Mar-Apr 1999), 8A965
Calculation of the persistence length of solubilized starches from intrinsic viscosity measurements, J Rheol **43**(3) 753-673 (May-Jun 1999), 10A1085
Extensional viscosity modeling for injection molding simulation, J Reinforced Plastics Composites **18**(6) 499-507 (1999), 11A718
Comparison of entry flow techniques for measuring elongation flow properties, J Non-Newtonian Fluid Mech **85**(2-3) 213-227 (Aug 1999), 12A1028
Pressure effect on extensional viscosity, J Reinforced Plastics Composites **18**(7) 651-661 (1999), 12A1031
Viscosity and morphology of the two-phase system PDMS-P(DMS-ran-MPS), J Rheol **43**(4) 1033-1045 (Jul-Aug 1999), 12A1032

350H. Flow birefringence

Uniaxial extensional characterization of a shear thinning fluid using axisymmetric flow birefringence, J Rheol **43**(1) 147-165 (Jan-Feb 1999), 6A1133
Stress and birefringence measurements during the uniaxial elongation of polystyrene melts, J Rheol **43**(3) 795-813 (May-Jun 1999), 10A1086
Characterization of the flow properties of sodium carboxymethylcellulose via mechanical and optical techniques, Rheol Acta **38**(1) 26-33 (May 1999), 11A1028

350I. Colloids and suspensions

Significance of the dispersed-phase viscosity on the simple shear flow of suspensions of 2D liquid drops, J Fluid Mech **365** 205-234 (Jun 1998), 1A1148
Stochastic to a microscopic approach to Brownian motion, Acta Phys Polonica B **B29**(6) 1551-1564 (Jun 1998), 2A1054
Rheology and dynamics of sheared arrays of colloidal particles, J Rheol **42**(5) 1121-1151 (Sep-Oct 1998), 3A1017
Mudflow Rheology and Dynamics (Balkema, Rotterdam, Netherlands, 1997) 4N27
Measurement of the shear-induced particle and fluid tracer diffusivities in concentrated suspensions by a novel method, J Fluid Mech **375** 297-318 (Nov 1998), 5A904
Nuclear magnetic resonance imaging investigation of sedimentation of concentrated suspensions in non-Newtonian fluids, J Rheol **42**(6) 1419-1436 (Nov-Dec 1998), 5A905
Pair-interaction dependence of domain growth in binary fluids, Model Simulation Mat Sci Eng **6**(5) 671-680 (Sep 1998), 5A906
Particle suspension model: An unstructured finite-volume implementation, J Non-Newtonian Fluid Mech **80**(2-3) 135-153 (Jan 1999), 5A907
Rheology of suspensions of weakly attractive particles: Approach to gelation, J Rheol **42**(6) 1451-1476 (Nov-Dec 1998), 5A908
Shear thickening as a consequence of an acoustic resonance in sheared colloidal crystals, J Rheol **42**(6) 1285-1301 (Nov-Dec 1998), 5A909
Shear-induced particle migration in a polydisperse concentrated suspension, J Rheol **42**(6) 1329-1348 (Nov-Dec 1998), 5A910
Thixotropic behavior of clay dispersions: Combinations of scattering and rheometric techniques, J Rheol **42**(6) 1349-1373 (Nov-Dec 1998), 5A911
Direct analysis of particulate suspensions with inertia using the discrete Boltzmann equation, J Fluid Mech **373** 287-311 (Oct 1998), 5T1002
Modeling of concentrated suspensions using a continuum constitutive equation, J Fluid Mech **373** 193-219 (Oct 1998), 5A1007
Numerical study of the sedimentation of fiber suspensions, J Fluid Mech **376** 149-182 (Dec 1998), 6A1134
Pressure drop created by a sphere settling in a tube containing a fiber suspension, J Rheol **43**(1) 1-8 (Jan-Feb 1999), 6A1135
Rheology of transient colloidal gels by Brownian dynamics computer simulation, J Rheol **43**(1) 219-244 (Jan-Feb 1999), 6A1136
Visualization of the breakdown of dilute particles gels during steady-shear, Rheol Acta **37**(6) 549-555 (Dec 1998), 6A1137
Acoustic behavior at the fluid-solid transition of kaolinite suspensions, Geophys **64**(1) 88-92 (Jan-Feb 1999), 7A938
Effect of matrix viscoelasticity on the electrorheological properties of particle suspensions, J Non-Newtonian Fluid Mech **81**(3) 235-250 (Mar 1999), 7A939
Ensemble-average versus suspension-scale Cauchy continuum-mechanical definitions of stress in polarized suspensions: Global homogenization of a dilute suspension of dipolar spherical particles, Phys Fluids **11**(2) 268-273 (Feb 1999), 7T940
Mechanics of the squeeze flow of planar fiber suspensions, J Non-Newtonian Fluid Mech **82**(1) 1-24 (Apr 1999), 7A941
Shear-driven diffusion in suspensions studied via 1D dynamic NMR projection, Fluid Dyn Res **24**(3) 121-132 (Mar 1999), 7A942
Sediment entrainment into ice via suspended ice crystals, Cold Regions Sci Tech **28**(3) 143-159 (Dec 1998), 7A1595
Particle segregation in monodisperse sheared suspensions, Phys Fluids **11**(3) 507-509 (Mar 1999), 8A971
Piston-driven flow of highly concentrated suspensions, J Rheol **43**(3) 735-751 (May-Jun 1999), 10A1087
Rheology and microstructure of concentrated, aggregated colloids, J Rheol **43**(3) 673-700 (May-Jun 1999), 10A1088
Yield stress of concentrated flocculated suspensions of size distributed particles, J Rheol **43**(3) 651-671 (May-Jun 1999), 10A1089
Particle size determination of (functionalized) colloidal calcium carbonate by small angle x-ray scattering relation with antiwear properties, Trib Trans **42**(2) 296-302 (Apr 1999), 11T984
Experimental study of the sedimentation of dilute and semi-dilute suspensions of fibers, J Fluid Mech **384** 133-158 (Apr 1999), 11A1029
Influence of dispersant nature and concentration on the rheological properties of Kaolin suspensions, Appl Mech Eng **4**(S) 381-385 (1999), 11T1030
Nonlinear rheology of concentrated spherical silica suspensions - 3: Concentration dependence, Rheol Acta **38**(1) 2-13 (May 1999), 11A1031
Nonlinear viscoelastic behavior of fumed silica suspensions, Rheol Acta **38**(1) 14-25 (May 1999), 11A1032
Plugging by hydrodynamic bridging during flow of stable colloidal particles within cylindrical pores, J Fluid Mech **385** 129-156 (Apr 1999), 11A1033
Rheological investigations and two-phase modeling on semi-solid metal suspensions, Appl Mech Eng **4**(S) 345-350 (1999), 11T1034
Rheological models for calcium carbonate-Kaolin suspensions for papercoating applications, Appl Mech Eng **4**(S) 387-392 (1999), 11T1035

Rheological properties of calcium carbonate concentrated suspensions: Effects of solid content and dispersant concentration, Appl Mech Eng **4**(S) 393-397 (1999), 11T1036
Rheology of ceramic suspensions in aqueous polysaccharide matrices, Appl Mech Eng **4**(S) 357-362 (1999), 11T1037
Sedimentation velocity of dilute suspensions of nearly monosized spheres, Int J Multiphase Flow **25**(4) 559-574 (Jun 1999), 11T1038
Shear viscosity of a molten composite short fibers, Comptes Rendus L'Acad Sci Serie II **327**(6) 559-565 (Jun 1999), 11A1039
Use of sepiolite clay and other minerals for developing geothermal drilling fluids, Appl Mech Eng **4**(S) 309-313 (1999), 11T1040
Well-posedness of the problem of fiber suspension flows, J Non-Newtonian Fluid Mech **83**(3) 205-230 (Jul 1999), 11A1041
Transition from frictional to viscous regime for granular suspensions, Comptes Rendus L'Acad Sci Serie II **327**(5) 515-522 (May 1999), 11A1172
Fiber-fiber interaction in concentrated suspensions: Disperse fibers, J Rheol **43**(4) 991-1004 (Jul-Aug 1999), 12A1033
Fiber-fiber interaction in concentrated suspensions: Dispersed fiber bundles, J Rheol **43**(4) 1005-1018 (Jul-Aug 1999), 12A1034
Longitudinal drift velocity of a sheared dilute suspension of spheres, Int J Multiphase Flow **25**(5) 875-885 (Aug 1999), 12A1035
Relationship between steady-state and oscillatory shear viscosity in planar randomly oriented concentrated fiber suspensions, J Rheol **43**(4) 1019-1031 (Jul-Aug 1999), 12A1036
Rheology and microstructure of dense suspensions of plate-shaped colloidal particles, J Rheol **43**(4) 847-871 (Jul-Aug 1999), 12A1037
Simulation of fiber suspension flows by the Brownian configuration field method, J Non-Newtonian Fluid Mech **84**(2-3) 257-274 (Aug 1999), 12A1038

350J. Liquid crystals

Effects of an external periodic body force on the interfacial stability of a nematic layer, Quart Appl Math **56**(3) 413-429 (Sep 1998), 1A1079
Smectic meniscus and dislocations, Acta Phys Polonica B **B29**(6) 1737-1747 (Jun 1998), 2A1055
Closure approximations for the Doi theory: Which to use in simulating complex flows of liquid-crystalline polymers, J Rheol **42**(5) 1095-1119 (Sep-Oct 1998), 3A1018
Microstructure constitutive equation for discotic nematic liquid crystalline materials - II: Microstructure-rheology relations, Rheol Acta **37**(4) 374-386 (Aug 1998), 3A1019
Transient response of electrorheological effect to a step field in an immiscible polymer blend: First mode in type I blend, J Rheol **42**(5) 1175-1184 (Sep-Oct 1998), 3A1020
Spatial development of director orientation of tumbling nematic liquid crystals in pressure-drive channel flow, J Non-Newtonian Fluid Mech **79**(2-3) 515-527 (Nov 1998), 4A989
Determination of local heat transfer coefficient based on bulk mean temperature using a transient liquid crystals technique, Exp Thermal Fluid Sci **18**(2) 142-149 (Oct 1998), 4T1334
Relevance of entry flow measurements for the estimation of extensional viscosity of polymer melts, Rheol Acta **37**(5) 430-437 (Oct 1998), 5A894
Calibration of micro-encapsulated liquid crystals using hue angle and a dimensionless temperature, Exp Thermal Fluid Sci **18**(3) 251-257 (Nov 1998), 5A912
Deformation and break-up of thermotropic copolyester droplets in a molten polypropylene matrix subjecting to oscillatory simple shear and entry flow, J Non-Newtonian Fluid Mech **80**(2-3) 199-216 (Jan 1999), 5A913
Effect of fillers on the steady state rheological behavior of liquid crystalline polymers, Rheol Acta **37**(5) 463-469 (Oct 1998), 5A914
Existence of nontrivial solutions for a scalar "light-nematic" system and its Frederiks transition threshold, SIAM J Appl Math **58**(6) 1852-1861 (Dec 1998), 5A915
Mathematical issues in the modeling of flow phenomena of polymeric liquid crystals, J Rheol **42**(6) 1519-1536 (Nov-Dec 1998), 5A916
Painleve analysis for a semi-linear parabolic equation arising in smectic liquid crystals, IMA J Appl Math **61**(1) 47-60 (Sep 1998), 5A917
Effect of temperature and concentration on N_1 and tumbling in a liquid crystal polymer, J Rheol **43**(1) 31-50 (Jan-Feb 1999), 6A1138
Electrorheological properties of a type-I immiscible polymer blend: Scaling and structural changes, J Rheol **43**(1) 125-136 (Jan-Feb 1999), 6A1139
Mesoscopic theory of liquid crystalline polymers, J Rheol **43**(1) 111-124 (Jan-Feb 1999), 6A1140
Rheo-dielectric behavior of low molecular weight liquid crystals - 1: Behavior of nematic 5CB 7CB, Rheol Acta **37**(6) 519-527 (Dec 1998), 6A1141
Smoothed particle hydrodynamics techniques for the solution of kinetic theory problems - Part 2: The effect of flow perturbations on the simple shear behavior of LCPs, J Non-Newtonian Fluid Mech **82**(1) 25-55 (Apr 1999), 7T937
Stability of liquid crystalline bridges, Phys Fluids **11**(2) 491-493 (Feb 1999), 7A943
Optical characterization of chevron texture formation in nematic electoconvection, Physica D **126**(3-4) 171-188 (Feb 1999), 8A1216
Correlation length in PBnA liquid crystal family, Acta Phys Polonica A **94**(5-6) 779-784 (Nov-Dec 1998), 9T1098
Investigations of director field arrangement induced in tunable liquid crystalline waveguide, Acta Phys Polonica A **94**(5-6) 813-823 (Nov-Dec 1998), 9T1099
New method for analysis of liquid crystal elasticity, Acta Phys Polonica A **94**(5-6) 803-812 (Nov-Dec 1998), 9A1100
Phase states in potassium oleate + water and potassium oleate + water + decanol lyotropic systems, Acta Phys Polonica A **94**(1) 25-32 (Jul 1998), 9T1101
Scaling in 2D distribution of topological defects in a liquid crystal, Acta Phys Polonica A **94**(1) 41-47 (Jul 1998), 9A1102
Nonlinear dynamics of the alignment tensor in the presence of electric fields, Arch Mech **50**(3) 559-566 (1998), 10T31
Abelian-Higgs-Navier-Stokes hydrodynamics for nematic films with defects, Acta Phys Polonica B **B29**(12) 3739-3752 (Dec 1998), 10A1090
Near-equilibrium dynamics of Dio models for liquid crystal polymer flows: Catastrophic and regularized behavior, J Non-Newtonian Fluid Mech **83**(1-2) 131-150 (Jun 1999), 10A1091
Role of liquid-crystalline polymer rheology on the evolving morphology of immiscible blends containing liquid-crystalline polymers, J Rheol **43**(3) 521-549 (May-Jun 1999), 10A1092
Rheological constitutive equation for suspensions of microcrystalline cellulose, Appl Mech Eng **4**(S) 17-20 (1999), 11T1042
Texture dependence of the Rayleigh instability in discotic mesophase fibers, Model Simulation Mat Sci Eng **7**(2) 147-155 (Mar 1999), 11A1043
Light modulation in elliptical-core liquid crystal fibers, Acta Phys Polonica A **95**(5) 767-775 (May 1999), 12T205
Beam propagation method for liquid crystal-core optical fiber waveguides, Acta Phys Polonica A **95**(5) 761-766 (May 1999), 12T217
Controlling light by light: Optical modulation in chiral neumatics, Acta Phys Polonica A **95**(5) 777-782 (May 1999), 12T228
Optical nonlinearity in liquid crystalline optical waveguides, Acta Phys Polonica A **95**(5) 783-792 (May 1999), 12T229
Nonlinear optical measurements of elastic constants in neumatic liquid crystal, Acta Phys Polonica A **95**(5) 793-800 (May 1999), 12A871
Isothermal model for high-speed spinning of liquid crystalline polymer fibers - coupling of flow, orientation, and crystallization, J Non-Newtonian Fluid Mech **84**(2-3) 109-121 (Aug 1999), 12A1039
Low temperature rheology of lubricating mineral oils: Effects of cooling rate and wax crystallization on flow properties of base oils, J Rheol **43**(4) 911-931 (Jul-Aug 1999), 12A1040
Peculiarities of the Schlieren textures in lyotropic nematic mesophases, Acta Phys Polonica A **95**(6) 931-937 (Jun 1999), 12T1041

350K. Structured continua

Acoustic phase lenses in superfluid helium as models of composite space-times in general relativity: Classical and quantum features, Acta Phys Polonica B **B30**(4) 897-905 (Apr 1999), 12A75

350M. Material characterization and models

Recruitment-based rheological model for mechanical behavior of soft tissue, Biorheol **35**(1) 17-35 (Jan-Feb 1998), 2A1056
Rheological modeling with Hookean bead-spring cubes (SC, BCC, and FCC), J Eng Math **34**(1-2) 75-95 (Jul 1998), 2A1057
Dynamics of ultradilute polymer solutions in transient flow: Comparison of dumbbell-based theory and experiment, J Rheol **42**(5) 1039-1058 (Sep-Oct 1998), 3A1021
Evaluation of models combining rheological data with the molecular weight distribution, J Rheol **42**(5) 1153-1173 (Sep-Oct 1998), 3A1022
Polymer modified asphalts as viscoelastic emulsions, J Rheol **42**(5) 1059-1074 (Sep-Oct 1998), 3A1023
Stationary and stability analysis of the film casting process, J Non-Newtonian Fluid Mech **79**(2-3) 563-583 (Nov 1998), 4A755
Transient extensional rheology and the influence of strain history, J Non-Newtonian Fluid Mech **79**(2-3) 213-223 (Nov 1998), 4A988
Stress tensor and stress-optical law in entangled polymers, J Non-Newtonian Fluid Mech **79**(2-3) 225-234 (Nov 1998), 4A990
Influence of cross-film viscosity variation on conduction effects in journal bearings, Trib Trans **41**(4) 513-518 (Oct 1998), 5T853
Particle suspension model: An unstructured finite-volume implementation, J Non-Newtonian Fluid Mech **80**(2-3) 135-153 (Jan 1999), 5A907
Differential constitutive equation for entangled polymer solutions, J Non-Newtonian Fluid Mech **80**(2-3) 115-134 (Jan 1999), 5A918
Study on the constitutive equation with fractional derivative for the viscoelastic fluids: Modified Jeffreys model and its application, Rheol Acta **37**(5) 512-517 (Oct 1998), 5A919
Modeling of concentrated suspensions using a continuum constitutive equation, J Fluid Mech **373** 193-219 (Oct 1998), 5A1007
Rheology and Fluid Mechanics of Nonlinear Material - 1998 (ASME, New York, 1998) 6N32
Yield stress - a review or "παντα ρει" - everything flows?, J Non-Newtonian Fluid Mech **81**(1-2) 133-178 (Feb 1999), 6A1132
Comparison of dumbbell-based theory and experiment for a dilute polymer solution in a corotating two-roll mill, J Rheol **43**(1) 197-218 (Jan-Feb 1999), 6A1142
Continuum model for flow-induced crystallization of polymer melts, J Rheol **43**(1) 85-109 (Jan-Feb 1999), 6A1143
Effect of variations in counterion to surfactant ratio on rheology and microstructures of drag reducing cationic surfactant systems, Rheol Acta **37**(6) 528-548 (Dec 1998), 6A1144
Experimental and conceptual problems in the rheological characterization of wheat flour doughs, Rheol Acta **37**(6) 556-565 (Dec 1998), 6A1145
Large amplitude oscillatory shear of ER suspensions, J Non-Newtonian Fluid Mech **81**(1-2) 83-104 (Feb 1999), 6A1146
Numerical study of various rheological polydispersity measures, Rheol Acta **37**(6) 583-592 (Dec 1998), 6A1147
Die swell measurements of second-order fluids: Numerical experiments, Int J Numer Methods Fluids **29**(1) 1-18 (Jan 1999), 6A1148
Nonlinear viscoelasticity of entangled polymeric liquids, J Non-Newtonian Fluid Mech **81**(1-2) 71-81 (Feb 1999), 6A1155
Dynamics of non-Brownian rodlike particles in a nonuniform elongational flow, Phys Fluids **11**(4) 773-777 (Apr 1999), 8T960
New transient network model for associative polymer networks, J Rheol **43**(2) 375-391 (Mar-Apr 1999), 8A972
Phenomenological model of an elastomer with an evolving molecular weight distribution, J Rheol **43**(2) 393-414 (Mar-Apr 1999), 8A973
IUTAM Symposium on Rheology of Bodies with Defects (Kluwer, Netherlands, 1998) 9N36
Rheological parameter identification formulated as an inverse FE problem, Inverse Prob Eng **7**(1) 1-41 (1999), 9A1103
Phenomenological model for flow-induced crystallization, J Reinforced Plastics Composites **18**(5) 464-471 (1999), 10A816
Rigid-rod model for nematic polymers: An analysis of the shear flow problem, J Rheol **43**(3) 829-843 (May-Jun 1999), 10A1093
Segment connectivity, chain length breathing, segmental stretch, and constraint release in reptation models - Part III: Shear flows, J Rheol **43**(3) 701-717 (May-Jun 1999), 10A1094
Time-dependent and flow properties of foams, Mech Time-Dependent Mat **2**(2) 171-193 (1998), 10A1095
Transient flow experiments in a model immiscible polymer blend, J Rheol **43**(3) 815-827 (May-Jun 1999), 10A1096
Constitutive relations for Rivilin-Ericksen fluids based on generalized rational approximation, Arch Rational Mech Anal **146**(1) 73-93 (1999), 11A1044
Elastic recovery of immiscible blends - 1: Analysis after steady state shear flow, Rheol Acta **38**(1) 65-72 (May 1999), 11A1045
Rheological and molecular characterization of linear backbone flexible polymers with the Cole-Cole model relaxation spectrum, Rheol Acta **38**(1) 34-47 (May 1999), 11A1046
Rheological behavior of protein interfacial layers in emulsion stability, Appl Mech Eng **4**(S) 141-144 (1999), 11T1047
Rheological characterization of a high-density polyethylene with a multi-mode differential viscoelastic mode and numerical simulation of transient elongational recovery experiments, Rheol Acta **38**(1) 48-64 (May 1999), 11A1048
Rheology of polymer blends: Linear model for viscoelastic emulsions, Rheol Acta **38**(1) 73-83 (May 1999), 11A1049
Consistent thin-layer theory for Bingham plastics, J Non-Newtonian Fluid Mech **84**(1) 65-81 (Jul 1999), 12A1026
Isothermal model for high-speed spinning of liquid crystalline polymer fibers - coupling of flow, orientation, and crystallization, J Non-Newtonian Fluid Mech **84**(2-3) 109-121 (Aug 1999), 12A1039
Modeling and experimental investigation of shear flow of a filled polymer, J Non-Newtonian Fluid Mech **85**(2-3) 189-212 (Aug 1999), 12A1042
Predicting low density polyethylene melt rheology in elongational and shear flows with "pom-pom" constitutive equations, J Rheol **43**(4) 873-896 (Jul-Aug 1999), 12A1043
Response of electrorheological fluid under oscillatory squeeze flow, J Non-Newtonian Fluid Mech **84**(2-3) 149-158 (Aug 1999), 12A1044
Rheology of acrylonitrile-butadiene-styrene polymer melts and viscoelastic constitutive models, J Rheol **43**(4) 977-990 (Jul-Aug 1999), 12A1045
Shear-flow properties of electro-rheological liquid polymeric blends, J Non-Newtonian Fluid Mech **85**(2-3) 249-256 (Aug 1999), 12A1046
Theoretical modeling of fluid S1: A comparative study of constitutive models in sample and complex flows, J Non-Newtonian Fluid Mech **85**(2-3) 107-125 (Aug 1999), 12T1047
Two-structure model of liquid water, Model Simulation Mat Sci Eng **7**(3) 321-331 (May 1999), 12A1048
Torsional flow stability of highly dilute polymer solutions, J Non-Newtonian Fluid Mech **84**(1) 19-44 (Jul 1999), 12A1178

350Y. Computational techniques

Scientific approach to screw design, J Reinforced Plastics Composites **17**(12) 1096-1109 (1998), 1A1080
Numerical simulation of concentrated emulsion flows, J Fluids Eng **120**(4) 824-832 (Dec 1998), 3A1024
Numerical study of the sedimentation of fiber suspensions, J Fluid Mech **376** 149-182 (Dec 1998), 6A1134
Die swell measurements of second-order fluids: Numerical experiments, Int J Numer Methods Fluids **29**(1) 1-18 (Jan 1999), 6A1148
Numerical research on the coherent structure in the viscoelastic second-order mixing layers, Appl Math Mech **19**(8) 717-723 (Aug 1998), 6A1149
A posteriori estimators for mixed FE approximations of a fluid obeying the power law, Comput Methods Appl Mech Eng **166**(3-4) 329-340 (Nov 1998), 6A1150
Transient mixed convection of a second-grade fluid past a backward-facing step, Int J Non-Linear Mech **34**(5) 881-893 (Sep 1999), 10A1097
Physical consequences of mathematical model for polymer oscillatory flow, Appl Mech Eng **4**(S) 277-282 (1999), 11T1050
Longitudinal drift velocity of a sheared dilute suspension of spheres, Int J Multiphase Flow **25**(5) 875-885 (Aug 1999), 12A1035
Imaging of particle shear migration with electrical impedance tomography, Phys Fluids **11**(8) 1982-1994 (Aug 1999), 12A1049
Variance reduction methods for CONNFFESSIT-like simulations, J Non-Newtonian Fluid Mech **84**(2-3) 191-215 (Aug 1999), 12A1050

350Z. Experimental techniques

Evaluation of rheological properties of cellulose carbamate spinning solutions at the temperatures of their processing, Fibres Textiles in E Europe **6**(1) 56-58 (Jan-Mar 1998), 2A1058
Structure of aqueous solutions of tetramethylammonium chloride investigated by position annihilation and ultrasonic methods, Acta Phys Polonica A **93**(4) 649-658 (Apr 1998), 2T1059
Comparison of different shear rheometers with regard to creep and creep recovery measurements, Rheol Acta **37**(4) 358-364 (Aug 1998), 3A1025
Compliance of actin filament networks measured by particle-tracking microrheology and diffusing wave spectroscopy, Rheol Acta **37**(4) 387-398 (Aug 1998), 3A1026
Gel transition studies on nonideal polymer networks using small amplitude oscillatory rheometry, J Rheol **42**(5) 1021-1037 (Sep-Oct 1998), 3A1027
Shear thickening in low-concentration solutions of wormlike micelles - I: Direct visualization of transient behavior and phase transitions, J Rheol **42**(5) 1185-1208 (Sep-Oct 1998), 3A1028
Shear thickening in low-concentration solutions of wormlike micelles - II: Slip, fracture, and stability of the shear-induced phase, J Rheol **42**(5) 1209-1226 (Sep-Oct 1998), 3A1029
Electrorheological fluids response under mechanical testing, J Intelligent Mat Syst Struct **9**(1) 44-52 (Jan 1998), 4A991
Quantitative modeling of HDPE spurt experiments using wall slip and generalized Newtonian flow, J Non-Newtonian Fluid Mech **79**(2-3) 503-514 (Nov 1998), 4A992
Study of electrorheological fluids behavior under fatigue tests, J Intelligent Mat Syst Struct **9**(1) 53-59 (Jan 1998), 4A993

Modeling of a PIB-PB Boger fluid in extensional flow, J Non-Newtonian Fluid Mech **80**(2-3) 155-182 (Jan 1999), 5A897

Measurement of the shear-induced particle and fluid tracer diffusivities in concentrated suspensions by a novel method, J Fluid Mech **375** 297-318 (Nov 1998), 5A904

Deformation and breakup mechanisms of single drops during shear, J Rheol **42**(6) 1403-1417 (Nov-Dec 1998), 5A920

Measuring uniaxial extensional viscosity using a modified rotational rheometer, J Non-Newtonian Fluid Mech **80**(2-3) 183-197 (Jan 1999), 5A921

Yield stress measurements of aqueous foams in the dry limit, J Rheol **42**(6) 1437-1450 (Nov-Dec 1998), 5A922

Gelation kinetics in elastomer-thermoset polymer blends, Rheol Acta **37**(6) 614-623 (Dec 1998), 6A1151

Pointwise observations for rheological characterization using nuclear magnetic resonance imaging, J Rheol **43**(1) 9-30 (Jan-Feb 1999), 6A1152

Application of the multipass rheometer to time-dependent capillary flow measurements of a polyethyelene melt, J Rheol **43**(2) 443-451 (Mar-Apr 1999), 8A974

Capillary thinning of polymeric filaments, J Rheol **43**(3) 609-625 (May-Jun 1999), 10A1098

Mathematical modeling of an ultrasonic flowmeter primary device, Arch Acoust **23**(3) 429-442 (1998), 10A1099

Rotational magnetic particle microrheometry: The Newtonian case, J Rheol **43**(3) 591-608 (May-Jun 1999), 10A1100

Transient non-uniform extensional flows realized in certain types of rheometers, J Non-Newtonian Fluid Mech **83**(1-2) 151-161 (Jun 1999), 10A1101

Comparison of the polymer solutions data from various measurements, Appl Mech Eng **4**(S) 191-196 (1999), 11T1051

Flow behavior and processability of thermoplastic polymer blends, Appl Mech Eng **4**(S) 237-242 (1999), 11T1052

Flow properties of high internal phase ratio oil-in-water emulsions, Appl Mech Eng **4**(S) 363-368 (1999), 11A1053

Helical screw rheometer for measurements in batch systems, Appl Mech Eng **4**(S) 57-62 (1999), 11T1054

Investigation of "Kamaxil" silicon elastomer rheological properties, Appl Mech Eng **4**(S) 51-56 (1999), 11T1055

Preparation and modification of waterborne polyurethanes, Appl Mech Eng **4**(S) 315-318 (1999), 11T1056

Pressure effect on mechanical properties of polymers, Appl Mech Eng **4**(S) 91-102 (1999), 11T1057

Regulation role of adsorption-solvate affinity of polymer to filler in structure formation of high-filled polyacrylate systems, Appl Mech Eng **4**(S) 329-332 (1999), 11T1058

Rheokinetics of a fast-curing polyurethane, Appl Mech Eng **4**(S) 85-90 (1999), 11T1059

Rheological characterization of water-based drilling muds, Appl Mech Eng **4**(S) 339-344 (1999), 11T1060

Rheological peculiarities of microcrystalline cellulose gels, Appl Mech Eng **4**(S) 351-355 (1999), 11T1061

Rheological properties and time stability of solutions of gelatine-polyacrylonitrile grafted copolymer in zinc chloride solvent, Fibres Textiles in E Europe **6**(3) 38-40 (Jul-Aug 1998), 11T1062

Rheological properties of evolutive materials monitored by an acoustic test, Appl Mech Eng **4**(S) 39-44 (1999), 11T1063

Rheological properties, structure and thermal behavior of liquid crystalline copolyester, Appl Mech Eng **4**(S) 289-296 (1999), 11T1064

Rheological studies on spinning solutions of gelatine-polyacrylonitrile graft copolymer, Fibres Textiles in E Europe **6**(4) 42-44 (Sep-Dec 1998), 11A1065

Rheology of concentrated dispersions of oil and water with and without slippage, Appl Mech Eng **4**(S) 369-374 (1999), 11T1066

Specificity and common features of rheological behavior of liquid and gel-like locust beam gum-gelatin systems, Appl Mech Eng **4**(S) 135-139 (1999), 11T1067

Structural-rheological states of filled polymerizing acrylates, Appl Mech Eng **4**(S) 325-328 (1999), 11T1068

Time and temperature dependent Young's modulus for isotropic and highly oriented polymers, Appl Mech Eng **4**(S) 69-74 (1999), 11T1069

Ultrasonic shear wave apparatus and its applications to rheology of hydraulic materials, Appl Mech Eng **4**(S) 63-68 (1999), 11T1070

Way ahead: ESF consolidation, Appl Mech Eng **4**(S) 243-252 (1999), 11T1071

352. HYDRAULICS

352A. General theory

Classical hydraulic jump: A first comparison of a theoretical solution with experimental results, J Hydrology and Hydromech **46**(3) 169-188 (1998), 1A1081

Viscous free surface effect on coastal embankment hydrodynamics, Ocean Eng **26**(1) 47-65 (Jan 1999), 3A1037

Dispersion relation and eigenfunction expansions for water waves in a porous structure, J Eng Math **34**(3) 319-334 (Oct 1998), 4A994

Lumping process of unsaturated flow equations considering infiltration loss (Japanese), Proc JSCE **600**(II-44) 11-21 (Aug 1998), 4A995

Urban inundation prediction by use of tank model (Japanese), Proc JSCE **600**(II-44) 1-10 (Aug 1998), 4T1540

Encapsulation of numerical-hydraulic models in artificial neural network, J Hydraul Res **37**(2) 147-161 (1999), 11T1072

First-order estimation of stochastic parameters of a sediment transport model, J Hydraul Res **37**(2) 213-227 (1999), 11T1080

Theoretical analysis of discontinuous flow with mobile bed, J Hydraul Res **37**(2) 199-212 (1999), 11T1082

352B. Closed conduit flow

Stochastic analysis of biodegradation fronts in 1D heterogeneous porous media, Adv Water Resources **22**(2) 103-116 (Oct 1998), 5T926

Derivation of Forchheimer terms and their verification by application to waves propagation in porous media, Int J Multiphase Flow **25**(4) 683-704 (Jun 1999), 11T1073

Measurement of the nonlinear behavior of acoustical rigid porous materials, Phys Fluids **11**(6) 1342-1345 (Jun 1999), 11A1074

Retention curve of simple capillary networks, J Hydrology and Hydromech **47**(2) 117-131 (1999), 11T1075

Computation of flow through a fluid-sediment interface in a benthic chamber, Phys Fluids **11**(6) 1395-1405 (Jun 1999), 11A1090

352C. Open channel flow (incl hydraulic jumps)

Classical hydraulic jump: A first comparison of a theoretical solution with experimental results, J Hydrology and Hydromech **46**(3) 169-188 (1998), 1A1081

Friction characteristics in unsteady open channel sewer flow, J Hydrology and Hydromech **46**(3) 189-206 (1998), 1T1082

Generalized design of single profile (self basing) weirs, J Hydraul Res **36**(4) 695-706 (1998), 2T1060

Experiments to dambreak wave: Sloping channel, J Hydraul Res **36**(5) 761-773 (1998), 4A996

Initial stages of dam-break flow, J Fluid Mech **370** 203-220 (Sep 1998), 4A997

Study on rising current produced from V-shaped structure in the stratified fluid (Japanese), Proc JSCE **600**(II-44) 51-57 (Aug 1998), 4A998

Flood inundation analysis resulting from Levee-break, J Hydraul Res **36**(5) 747-759 (1998), 4T1017

Numerical modeling of spillway flow with free drop and initially unknown discharge, J Hydraul Res **36**(5) 785-801 (1998), 4T1022

Initial stages of dam-break flow, J Fluid Mech **374** 407-424 (Nov 1998), 5A923

Non-oscillatory scheme for open channel flows, Adv Water Resources **22**(2) 133-143 (Oct 1998), 5A924

Similarity of gravity current fronts, Phys Fluids **10**(12) 3209-3213 (Dec 1998), 5A925

Stochastic analysis of biodegradation fronts in 1D heterogeneous porous media, Adv Water Resources **22**(2) 103-116 (Oct 1998), 5T926

Complex flow mechanisms in compound meandering channels with overbank flow, J Fluid Mech **376** 221-261 (Dec 1998), 6A1153

Experimental study on flow structure in bends of rectangular open channels with small width-to-depth ratio (Japanese), Proc JSCE **607**(II-45) 19-28 (Nov 1998), 6A1154

Nonlinear viscoelasticity of entangled polymeric liquids, J Non-Newtonian Fluid Mech **81**(1-2) 71-81 (Feb 1999), 6A1155

Staggered solution schemes for dam-reservoir interaction, J Fluids Struct **12**(7) 933-948 (Oct 1998), 6A1156

Experimental study to validate Van der Meer's formula for stone rubble mound breakwater design (Spanish), Ingenieria Hidraul Mex **14**(1) 43-49 (Jan-Apr 1999), 6T1157

Method to estimate peak flow reduction in reservoirs (Spanish), Ingenieria Hidraul Mex **14**(1) 61-76 (Jan-Apr 1999), 6T1472

Correlations between dispersion and structure in porous media probed by nuclear magnetic resonance, Phys Fluids **11**(2) 259-267 (Feb 1999), 7A944

Two-dimensional shallow water flow model for the hydraulic jump, Int J Numer Methods Fluids **29**(4) 375-387 (Feb 1999), 7A945

Determination of discharge in river and channel sections with influenced water level regime - Part I: Theoretical approach (Czech), J Hydrology and Hydromech **46**(6) 398-413 (1998), 7T952

Experimental modeling of circular hydraulic jump by the impingement of a water column on a horizontal disk, J Fluids Eng **121**(1) 86-92 (Mar 1999), 7A1071

Strouhal numbers of flow-excited acoustic resonance of closed side branches, J Fluids Struct **13**(1) 127-142 (Jan 1999), 8A268

Gradually varied flow profiles in rectangular open channels, J Hydraul Res **37**(1) 99-106 (1999), 8T975

Modeling of flows between two consecutive reverse curves, J Hydraul Res **37**(1) 121-135 (1999), 8T976

Determination of discharge in river and channel sections with influenced water level regime - II: Computational realization (Polish), J Hydrology and Hydromech **47**(1) 61-71 (1999), 8A987

Two-dimensional numerical modeling of flushing processes in water reservoirs, J Hydraul Res **37**(1) 3-16 (1999), 8T1475

Sediment Transport in Irrigation Canals (Balkema, Rotterdam, Netherlands, 1998) 9R34

Simulation and prediction of swash oscillations on a steep beach, Coastal Eng **36**(3) 219-242 (Apr 1999), 10A288

Determination of resistance to flow in ice-covered channels using semi-logarithmic velocity distribution, J Hydrodyn **11**(1) 11-19 (1999), 10T1102

Dynamic simulation of one and two particles sedimenting in viscoelastic suspensions of FENE dumbbells, J Non-Newtonian Fluid Mech **83**(1-2) 93-130 (Jun 1999), 10A1103

Numerical computation of open channel flow with shock wave using FDS method (Japanese), Proc JSCE **614**(II-46) 37-49 (Feb 1999), 10A1104

Study on the turbulent structures in cavity open-channel flows (Japanese), Proc JSCE **614**(II-46) 51-63 (Feb 1999), 10A1105

Computation of discharge in meandering compound rivers, J Hydrodyn **11**(1) 50-55 (1999), 10T1114

Flux-corrected transport technique for open channel flow, Int J Numer Methods Fluids **29**(8) 951-973 (Apr 1999), 10A1195

Design and robustness analysis of decentralized constant volume-control for open-channels, Appl Math Model **23**(6) 479-500 (Jun 1999), 11A408

Retention curve of simple capillary networks, J Hydrology and Hydromech **47**(2) 117-131 (1999), 11T1075

Boundary shear stresses in a rectangular channel (Spanish), Ingenieria Hidraul Mex **14**(2) 21-26 (May-Aug 1999), 11T1076

Three-dimensional nonlinear hydrodynamic pressures by earthquakes on dam faces with arbitrary reservoir shapes, J Hydraul Res **37**(2) 163-187 (1999), 11T1077

Tortuosity as a hydrological characteristics (Slovak), J Hydrology and Hydromech **47**(2) 93-102 (1999), 11T1078

Geometrical method for computing the distribution of boundary shear stress across irregular straight open channels, J Hydraul Res **37**(3) 381-388 (1999), 12A1051

Large flow structures in a turbulent open channel flow, J Hydraul Res **37**(3) 363-380 (1999), 12A1052

Large-eddy simulation of flow in a rectangular open channel, J Hydraul Res **37**(3) 345-361 (1999), 12T1053

352D. Pipe losses (friction and geometry)

Modeling of pipeline integrity taking into account the fluid-structure interaction, Int J Numer Methods Fluids **28**(2) 337-355 (Aug 1998), 1A1083

Flexible farm irrigation water distribution using low pressure pipelines, Ingenieria Hidraul Mex **13**(3) 35-43 (Sep-Dec 1998), 3T1030

Numerical method for the computation of the effects of an air vessel on the pressure surges in pumping systems with air entrainment, Int J Numer Methods Fluids **28**(4) 703-718 (Sep 1998), 3A1031

Pipeline leak detection by impulse response extraction, J Fluids Eng **120**(4) 833-838 (Dec 1998), 3A1032

General correlation for the local loss coefficient in Newtonian axisymmetric sudden expansions, Int J Heat Fluid Flow **19**(6) 655-660 (Dec 1998), 4A999

Suitability of the low Mach number assumption in the modeling of the damage induced by pressure transients in piping systems, J Fluids Eng **121**(1) 112-118 (Mar 1999), 7A946

Linear programming model for seabed oil-gas pipe network, China Ocean Eng **12**(4) 477-482 (1998), 8T272

352E. Unsteady flow

Bed-load transport for steady flows and unsteady oscillatory flows, Coastal Eng **34**(1-2) 59-82 (Jul 1998), 2A1061

Initial stages of dam-break flow, J Fluid Mech **370** 203-220 (Sep 1998), 4A997

Fluid-dynamic feedback in shear layer oscillation below a submerged sluice gate, J Hydraul Res **37**(1) 107-120 (1999), 8A978

Hydraulic ram analysis: A new look at an old problem, Proc Inst Mech Eng A **213**(A2) 127-141 (1999), 12A1054

352F. Stratified flow

Numerical solution of a 2D fluidized bed model, Int J Numer Methods Fluids **28**(3) 381-394 (Sep 1998), 2A1062

Unsteady convective exchange flows in cavities, J Fluid Mech **368** 127-153 (Aug 1998), 3A1144

Effect of interfacial instabilities in a stratified resuspension flow on the pressure loss, Phys Fluids **10**(11) 2737-2745 (Nov 1998), 4T1007

Laboratory experiments of buoyancy-influenced flow in clarifiers, J Hydraul Res **36**(5) 831-851 (1998), 4A1010

Similarity of gravity current fronts, Phys Fluids **10**(12) 3209-3213 (Dec 1998), 5A925

Submaximal exchange between a convectively forced basin and a large reservoir, J Fluid Mech **378** 357-378 (Jan 1999), 8A977

Predictive model for long-term shoreline change, J Hydrodyn **11**(1) 56-63 (1999), 10A1106

352G. Obstructions

Generalized design of single profile (self basing) weirs, J Hydraul Res **36**(4) 695-706 (1998), 2T1060

Experimental study on two layer stratified flow over hump (Japanese), Proc JSCE **600**(II-44) 59-67 (Aug 1998), 4A1000

Fluid-dynamic feedback in shear layer oscillation below a submerged sluice gate, J Hydraul Res **37**(1) 107-120 (1999), 8A978

Optimal control for an obstruction problem, J Optim Theory Appl **100**(2) 435-439 (Feb 1999), 9T440

Fully nonlinear flow over successive obstacles: Hydraulic fall and supercritical flows, J Austral Math Soc B **40**(4) 447-458 (Apr 1999), 10A1107

Three-dimensional nonlinear hydrodynamic pressures by earthquakes on dam faces with arbitrary reservoir shapes, J Hydraul Res **37**(2) 163-187 (1999), 11T1077

Tortuosity as a hydrological characteristics (Slovak), J Hydrology and Hydromech **47**(2) 93-102 (1999), 11T1078

Riprap at bridge piers, J Hydraul Res **37**(3) 291-302 (1999), 12T1056

Grain and form resistance in gravel-bed rivers, J Hydraul Res **37**(3) 303-312 (1999), 12T1059

352H. Orifices, nozzles, valves, and gates

Analysis of flow induced vibrations in safety valves and solutions for their reduction (French), Rev Francaise Mec **0**(3) 192-199 (Sep 1998), 4A1001

Valves for cryogenic applications (French), Rev Francaise Mec **0**(3) 182-184 (Sep 1998), 4T1002

Flood inundation analysis resulting from Levee-break, J Hydraul Res **36**(5) 747-759 (1998), 4T1017

Main steam isolation valves in very severe working conditions (French), Rev Francaise Mec **0**(3) 175-180 (Sep 1998), 4A1522

Range of facilities for testing power plant valves under extreme conditions (French), Rev Francaise Mec **0**(3) 167-173 (Sep 1998), 4A1523

Fluid-dynamic feedback in shear layer oscillation below a submerged sluice gate, J Hydraul Res **37**(1) 107-120 (1999), 8A978

Numerical study on the effects of air valve characteristics on pressure surges during pump trip in pumping systems with air entrainment, Int J Numer Methods Fluids **29**(6) 645-655 (Mar 1999), 8A979

352I. Forces on hydraulic structures

Offshore technology in focus, Appl Ocean Res **20**(1-2) 3-118 (Feb-Apr 1998), 1A293

Industrial applications of fluid-structure interaction and flow-induced noise research, J Fluids Struct **12**(4) 395-507 (Mau 1998), 1A298

Experimental study on the fluidelastic forces for two staggered circular cylinders in cross-flow, J Fluids Struct **12**(3) 259-294 (Apr 1998), 1T1084

Spectral analysis for nonlinear wave forces, Appl Ocean Res **20**(4) 199-212 (Aug 1998), 2A312
Hydrodynamic damping of a cylinder in still water and in a transverse current, Appl Ocean Res **20**(4) 251-259 (Aug 1998), 2A337
Hydrodynamic force on a rigid body during impact with liquid, J Fluids Struct **12**(5) 549-559 (Jul 1998), 2A1063
Numerical simulation of wave forces of seabed pipelines, China Ocean Eng **12**(2) 203-211 (1998), 2T1064
Physical modeling and similitude of marine structures, Ocean Eng **26**(2) 111-123 (Feb 1999), 3T271
Composing multi-pole-model block schemes for a load-sensing hydraulic drive, Proc Estonian Acad Sci Eng **4**(3) 209-224 (Sep 1998), 3A453
Hydrodynamic study of the Olmsted wicket gate using a 1:25-scale model, Mech Syst Signal Processing **12**(5) 661-677 (Sep 1998), 4A258
Longitudinal current induced by oblique waves along coastal structures, Coastal Eng **35**(3) 211-230 (Nov 1998), 5A927
Third-order hydrodynamic loads on an oscillating vertical cylinder in water, J Offshore Mech Arctic Eng **121**(1) 16-21 (Feb 1999), 5A928
Oscillating rectangular and octagonal profiles modeling of fluid forces, J Fluids Struct **12**(7) 859-882 (Oct 1998), 6T262
Experimental study to validate Van der Meer's formula for stone rubble mound breakwater design (Spanish), Ingenieria Hidraul Mex **14**(1) 43-49 (Jan-Apr 1999), 6T1157
Normal modes of fluid-structure interaction in internal flows, J Hydrodyn **10**(4) 71-89 (1998), 7A243
Dynamic response analysis of platform-cylinder group foundation due to impact by water wave flow, Appl Math Mech **19**(11) 1073-1082 (Nov 1998), 7A947
Estimation method of hydrodynamic forces acting on a very large floating structure - Part 2, Appl Ocean Res **21**(2) 53-67 (Apr 1999), 8A271
Time- and frequency-domain analysis of ice-induced displacement responses of offshore fixed platforms, China Ocean Eng **12**(4) 365-373 (1998), 8T275
Water impact of general 2D sections, Appl Ocean Res **21**(1) 1-15 (Feb 1999), 8A276
Wave interaction with an upright breakwater structure, Ocean Eng **26**(10) 1003-1021 (Oct 1999), 8A988
Numerical prediction of force on rectangular cylinders in oscillating viscous flow, J Fluids Struct **13**(2) 225-249 (Feb 1999), 9A1119
CFD investigation into the effects of current incidence on the hydrodynamic loading on a deepwater TLP, J Offshore Mech Arctic Eng **121**(2) 109-115 (May 1999), 9A1136
Dynamic interaction of nonlinear waves and a seawall over sand seabed, Int J Offshore Polar Eng **8**(1) 30-38 (Mar 1998), 10A1108
Motion of a rigid body impelled by sea-wave impact, Appl Ocean Res **21**(3) 113-125 (Jun 1999), 11T291
Wave forces on submerged semi-circular breakwater and similar structures, China Ocean Eng **13**(1) 63-72 (1999), 12A1055

352J. Wave loads on structures

Interaction of a plane solitary wave with a rigid vertical cylinder, Z Angew Math Mech **78**(8) 535-543 (1998), 3A240
Prediction of hydrodynamic forces on submarine pipelines using an improved Wake II Model, Ocean Eng **26**(5) 431-462 (May 1999), 4T254
Dragged surge motion of tension leg platforms and strained elastic tethers, Ocean Eng **26**(6) 575-594 (Jun 1999), 4T260
Wave forces and moments on an intake well, Ocean Eng **26**(4) 363-380 (Apr 1999), 4T1003
Multi-term coupling method for the analysis of wave-induced ship motion in nonlinear random waves (Japanese), Proc JSCE **600**(II-44) 105-117 (Aug 1998), 4A1234
Hydrodynamic evaluation of multi-layer wave filters and absorbers, J Offshore Mech Arctic Eng **121**(1) 22-31 (Feb 1999), 5A228
Note on second-order wave forces on a circular cylinder in finite water depth, Appl Math Lett **12**(1) 63-70 (Jan 1999), 5A929
Staggered solution schemes for dam-reservoir interaction, J Fluids Struct **12**(7) 933-948 (Oct 1998), 6A1156
Dynamic force acted on the chain cable of mooring fishing ships in the wind and the waves (Chinese), J Huazhong Univ Sci Tech **26**(9) 97-99 (Sep 1998), 6A1158
Effects of low sound velocity and gravity on wave propagation in oceanic structure (Japanese), Proc JSCE **605**(I-45) 153-160 (Oct 1998), 6A1503
Prediction of wave pressures on smooth impermeable seawalls, Ocean Eng **26**(8) 739-765 (Aug 1999), 7T251
Hydrodynamic loads on subsea robots, Ocean Eng **26**(8) 805-812 (Aug 1999), 7A948
Unsteady lift force on a towed sphere, J Fluids Struct **12**(8) 949-958 (Nov 1998), 8A260
Dynamic behavior of axially pre-loaded tubular steel members of offshore structures subjected to impact damage, Ocean Eng **26**(10) 963-978 (Oct 1999), 8T270
Prediction model for occurrence of impact wave force, Ocean Eng **26**(10) 949-961 (Oct 1999), 8A273
Ringing loads on a slender vertical cylinder of general cross-section, J Eng Math **35**(1-2) 199-217 (Feb 1999), 9A291
Low-frequency second-order wave-drift forces and damping, J Eng Math **35**(1-2) 181-198 (Feb 1999), 9A1104
Wave and wave-current loading on a bottom-mounted circular cylinder, Int J Offshore Polar Eng **8**(2) 122-129 (Jun 1998), 10A302
Characteristics of wave forces on vertical cylinder due to two-crossing waves, Int J Offshore Polar Eng **8**(1) 74-79 (Mar 1998), 10A316
Predictions of Morison-type forces in irregular waves at high Reynolds number, Int J Offshore Polar Eng **8**(4) 273-279 (Dec 1998), 10A1109
Wave loads on rubble mound breakwater crown walls, Coastal Eng **37**(2) 149-174 (Jul 1999), 12A1061

352K. Stilling basins and other energy dissipators

Numerical method for the computation of the effects of an air vessel on the pressure surges in pumping systems with air entrainment, Int J Numer Methods Fluids **28**(4) 703-718 (Sep 1998), 3A1031

352L. Cavitation

Cavitation and the state of stress in a flowing liquid, J Fluid Mech **366** 367-378 (Jul 1998), 1A1085
Numerical simulation of cavitating flow using the upstream FEM, Appl Math Model **22**(4-5) 235-250 (Apr-May 1998), 1A1086
In Fascination of Fluid Dynamics (Kluwer, Netherlands, 1998) 2N24
Capacitance tomographic system for the measurement of void fraction in transient cavitation, J Hydraul Res **36**(4) 707-719 (1998), 2A1065
Cavitation nuclei population and event rates, J Fluids Eng **120**(4) 728-737 (Dec 1998), 3A1190
Experimental study on transient and periodic phenomena of cavitating flow for a hydrofoil at small angle of attack (Chinese), J Shanghai Jiaotong Univ **32**(8) 86-92 (Aug 1998), 4A1004
Small cavitating venturi performance characteristics at low inlet subcooling, J Thermophys Heat Transfer **12**(4) 602-605 (Oct-Dec 1998), 4T1005
Experimental research of active control for instability phenomenon in cavitating centrifugal pump (Chinese), J Shanghai Jiaotong Univ **32**(7) 10-13 (Jul 1998), 4A1271
Examination of the flow near the leading edge of attached cavitation - Part 1: Detachment of 2D and axisymmetric cavities, J Fluid Mech **376** 61-90 (Dec 1998), 6A1159
Examination of the flow near the leading edge of attached cavitation - Part 2: Incipient breakdown of 2D and axisymmetric cavities, J Fluid Mech **376** 91-113 (Dec 1998), 6A1160
Preventive effect of rough surface from cavitation damage (Chinese), J Tsinghua Univ Sci Tech **38**(8) 79-82 (Aug 1998), 6A1161
Study of tip vortex cavitation inception using Navier-Stokes computation and bubble dynamics model, J Fluids Eng **121**(1) 198-204 (Mar 1999), 7A949
Venturi investigations into cavitation in ethylene glycol-water mixtures, Proc Inst Mech Eng E **212**(E4) 235-250 (1998), 7A950
Investigation on the noise of cavitation (Chinese), J Shanghai Jiaotong Univ **32**(12) 60-63 (Dec 1998), 8A303
Cavitation erosion features in industrial control valves at an inlet pressure of 20 MPa, JSME Int J Ser B **41**(4) 1105-1113 (Nov 1998), 8A980
Role of "splashing" in the collapse of a laser-generated cavity near a rigid boundary, J Fluid Mech **380** 339-361 (Feb 1999), 8A981
Fluid force and flutter stability of a pitching hydrofoil in subcavitation region, JSME Int J Ser B **41**(3) 575-582 (Aug 1998), 8T1221
Influence of incipient cavitation, J Huazhong Univ Sci Tech **27**(1) 66-68 (Jan 1999), 9A1105
Investigation of unsteady sheet cavitation and cloud cavitation mechanisms, J Fluids Eng **121**(2) 289-296 (Jun 1999), 9A1106
Cavermod device: Hydrodynamic aspects and erosion tests, J Fluids Eng **121**(2) 305-311 (Jun 1999), 9A1287
Role of bubble collapse pressure in cavitation erosion, JSME Int J Ser A **41**(1) 96-102 (Jan 1998), 10A1110
Cavitation investigations in two conventional tunnels and in the hydrodynamics and cavitation tunnel HYKAT, Ship Tech Res **46**(1) 43-56 (Feb 1999), 10A1249

352M. Erosion, scouring, sediment transport

Critical assessment of the research conducted at the hydraulics and erosion control laboratory: A focus on rolled erosion control systems applied to hillslopes, Geotextiles Geomembranes **16**(2) 87-118 (Apr 1998), 1T745
Bedload under asymmetric and irregular waves: Theory versus laboratory data, Arch Hydro-Eng Env Mech **43**(1-4) 21-42 (1996), 1A1087
Bed-load transport for steady flows and unsteady oscillatory flows, Coastal Eng **34**(1-2) 59-82 (Jul 1998), 2A1061
Rheology of cohesive sediments: Comparison between a natural and an artificial mud, J Hydraul Res **36**(4) 591-612 (1998), 2T1066
Three-dimensional numerical flow modeling for estimation of maximum local scour depth, J Hydraul Res **36**(4) 579-590 (1998), 2T1067
Wave-induced liquefaction and flow of subaqueous mud layers, Coastal Eng **34**(1-2) 109-127 (Jul 1998), 2A1068
Generalized study of erosion by circular horizontal turbulent jets, J Hydraul Res **36**(4) 613-635 (1998), 2A1174
Centrifuge modeling of the transport of a pulse of two contaminants through a clay layer, Geotechnique **48**(3) 421-425 (Jun 1998), 2T1523
Laboratory investigation of anaerobic microbial clogging in granular landfill drainage media, Geotechnique **48**(3) 389-401 (Jun 1998), 2A1524
Inception of sheet flow in oscillatory flow, Ocean Eng **26**(3) 277-285 (Mar 1999), 3T1033
Quasi-3D phase-resolving hydrodynamic and sediment transport model, Coastal Eng **34**(3-4) 277-311 (Sep 1998), 3T1034
Collisional sheet flows of sediment driven by a turbulent fluid, J Fluid Mech **370** 29-52 (Sep 1998), 4A1006
Effect of interfacial instabilities in a stratified resuspension flow on the pressure loss, Phys Fluids **10**(11) 2737-2745 (Nov 1998), 4T1007
Evolution mechanisms of the longitudinal bed profiles of major alluvial rivers in Japan and their implications for profile change prediction (Japanese), Proc JSCE **600**(II-44) 37-50 (Aug 1998), 4A1008
Hydraulic properties of sediment transport in the tunnel of sediment-bypass system of a reservoir, Proc JSCE **600**(II-44) 69-84 (Aug 1998), 4A1009
Laboratory experiments of buoyancy-influenced flow in clarifiers, J Hydraul Res **36**(5) 831-851 (1998), 4A1010
Modeling of TN, TP and COD runoff in forest basin (Japanese), Proc JSCE **601**(VII-8) 73-84 (Aug 1998), 4A1011
Numerical modeling of advection-dispersion equation in a stretched curvilinear grid using the quickest scheme, Int J Numer Methods Fluids **28**(7) 1033-1052 (Nov 1998), 4A1012
Observations from grid stirred turbulence: Grid characterization and application to sediment lift-off experiments, Appl Sci Res **59**(2-3) 243-254 (1997), 4A1013
Reducing the siltation of a river harbor, J Hydraul Res **36**(5) 803-814 (1998), 4A1014
Resuspension and sedimentation of particles from a sediment bed by turbulent jets, Appl Sci Res **59**(2-3) 229-242 (1997), 4A1015
Two-dimensional enhanced sedimentation in inclined fracture channels, Math Eng Industry **7**(1) 97-125 (1998), 4A1016
Status of measurement techniques for coastal sediment transport, Coastal Eng **35**(1-2) 17-45 (Oct 1998), 5A930
Transport rate under irregular sheet flow conditions, Coastal Eng **35**(3) 167-183 (Nov 1998), 5A931
Herschel-Bulkley model for mud flow down a slope, J Fluid Mech **374** 305-333 (Nov 1998), 5A1438
Scour Manual (Balkema, Rotterdam, Netherlands, 1997) 6N33
Flow regimes of mud and debris (Spanish), Ingenieria Hidraul Mex **14**(1) 5-12 (Jan-Apr 1999), 6T1162
Higher-order approximation techniques for estimating stochastic parameter of a sediment transport model, Stochastic Hydrology Hydraul **12**(6) 359-375 (Dec 1998), 6T1163
Sand ripples in an oscillating annular sand-water cell, Phys Fluids **11**(1) 58-67 (Jan 1999), 6A1164
Scouring of sloping cohesive sediment bed under waves (Japanese), Proc JSCE **607**(II-45) 55-67 (Nov 1998), 6A1165
Sediment flow in inclined vessels calculated using a multiphase particle-in-cell model for dense particle flows, Int J Multiphase Flow **24**(8) 1359-1382 (Dec 1998), 6T1166
Study on flow over flexible vegetation-covered bed (Japanese), Proc JSCE **607**(II-45) 29-44 (Nov 1998), 6T1167
Study on flow resistance and sediment transport with sediment deposition in horizontal pipe (Japanese), Proc JSCE **607**(II-45) 45-54 (Nov 1998), 6A1168
Unfluidized soil responses of a silty seabed to monochromatic waves, Coastal Eng **35**(4) 283-301 (Dec 1998), 6A1169
Enhanced Sedimentation in Inclined Fracture Channels (Comput Mech, Billerica MA, 1998) 7R23
Discrete computer simulation of bedforms, Mech Res Commun **26**(1) 91-98 (Jan-Feb 1999), 7T951
Modeling of clogging in porous media and design for an artificial groundwater recharge (Japanese), Proc JSCE **610**(III45) 125-134 (Dec 1998), 7A1518
Crescentric bedforms in the nearshore region, J Fluid Mech **381** 271-303 (Feb 1999), 8A982
Critical tractive stress of nonuniform sediments, J Hydraul Res **37**(1) 39-58 (1999), 8A983
Experimental study on scour rate and river bed inertia, J Hydraul Res **37**(1) 17-37 (1999), 8A984
Galerkin methods for transport in ground water, Appl Math Comput **100**(2-3) 249-263 (May 1999), 8A985
Three-dimensional structure of space-time correlation on coherent vortices generated behind dune crest, J Hydraul Res **37**(1) 59-80 (1999), 8A986
Sediment Transport in Irrigation Canals (Balkema, Rotterdam, Netherlands, 1998) 9R34
Equilibrium beach profiles under breaking and non-breaking waves, Coastal Eng **36**(1) 59-85 (Feb 1999), 9A1107
Sediment threshold, Appl Math Model **23**(5) 399-417 (May 1999), 9A1108
Two-phase flow modeling of sediment motions in oscillatory sheet flow, Coastal Eng **36**(2) 87-109 (Mar 1999), 9A1109
Accuracy of the Taylor-Galerkin model for contaminant transport in groundwater, Appl Math Comput **102**(2-3) 109-119 (Jul 1999), 10A1111
Electrical measurement of sediment layer thickness under suspension flows, Exp Fluids **26**(5) 470-474 (Apr 1999), 10A1112
Probability method for predicting time-dependent long-term shoreline erosion, Coastal Eng **36**(3) 243-261 (Apr 1999), 10T1113
Loose Boundary Hydraulics (Balkema, Rotterdam, Netherlands, 1998) 11R25
Physics of Estuaries and Coastal Seas (Balkema, Rotterdam, Netherlands, 1998) 11N27
Field measurements of longshore sediment transport during storms, Coastal Eng **36**(4) 301-321 (May 1999), 11T1079
First-order estimation of stochastic parameters of a sediment transport model, J Hydraul Res **37**(2) 213-227 (1999), 11T1080
Layer-averaged modeling of 2D turbidity currents with a dissipative-Galerkin FEM - Part II: Sensitivity analysis and experimental verification, J Hydraul Res **37**(2) 257-271 (1999), 11T1081
Theoretical analysis of discontinuous flow with mobile bed, J Hydraul Res **37**(2) 199-212 (1999), 11T1082
Theoretical derivation of Yalin's (1964) empirical equation for ripple length, Mech Res Commun **26**(2) 151-159 (Mar-Apr 1999), 11T1083
Three numerical numerical modeling of bed changes in a sand trap, J Hydraul Res **37**(2) 189-198 (1999), 11A1084
Equilibrium beach profile model for perched beaches, Coastal Eng **36**(4) 343-357 (May 1999), 11A1088
Initial formation of channels and shoals in a short tidal embayment, J Fluid Mech **386** 15-42 (May 1999), 11A1096
Riprap at bridge piers, J Hydraul Res **37**(3) 291-302 (1999), 12T1056
Theoretical analysis on armouring of river beds, J Hydraul Res **37**(3) 313-326 (1999), 12A1057
Two-dimensional computational model to simulate suspended sediment transport and bed changes, J Hydraul Res **37**(3) 327-344 (1999), 12T1058
Application of an acoustic particle flux profiler in particle-laden open-channel flow, J Hydraul Res **37**(3) 407-419 (1999), 12A1062

352N. Waterways

Bivariate analysis of the volume and duration of low-flow events, Stochastic Hydrology Hydraul **12**(2) 97-116 (Jul 1998), 2T1069
Numerical methods for contaminant transport in rivers and estuaries, Comput Fluids **27**(8) 861-878 (Nov 1998), 2A1521
Flexible farm irrigation water distribution using low pressure pipelines, Ingenieria Hidraul Mex **13**(3) 35-43 (Sep-Dec 1998), 3T1030
Flood inundation analysis resulting from Levee-break, J Hydraul Res **36**(5) 747-759 (1998), 4T1017
Flow data generation for the simulation of river basin managements with hydrological uncertainty (Japanese), Proc JSCE **601**(VII-8) 23-33 (Aug 1998), 4A1018
Laboratory investigation on wave transmission through two rows of perforated hollow piles, Ocean Eng **26**(7) 675-699 (Jul 1999), 5T229
Knowledge based expert system for design of berthing structures, Ocean Eng **26**(7) 653-673 (Jul 1999), 5A932
Staggered solution schemes for dam-reservoir interaction, J Fluids Struct **12**(7) 933-948 (Oct 1998), 6A1156
Recent advancement of groundwater hydraulics in underground space technology, J Hydraul Res **36**(6) 963-978 (1998), 6A1170

Stochastic macrodispersion models for gravel aquifers, J Hydraul Res **36**(6) 885-896 (1998), 6T1171
Quantifying the exchange rate between groundwater and small streams, J Hydraul Res **36**(6) 913-932 (1998), 6A1456
Determination of discharge in river and channel sections with influenced water level regime - Part I: Theoretical approach (Czech), J Hydrology and Hydromech **46**(6) 398-413 (1998), 7T952
Discharge distribution in straight compound channels, J Hydrodyn **10**(4) 31-36 (1998), 7T953
Critical tractive stress of nonuniform sediments, J Hydraul Res **37**(1) 39-58 (1999), 8A983
Experimental study on scour rate and river bed inertia, J Hydraul Res **37**(1) 17-37 (1999), 8A984
Determination of discharge in river and channel sections with influenced water level regime - II: Computational realization (Polish), J Hydrology and Hydromech **47**(1) 61-71 (1999), 8A987
Computation of discharge in meandering compound rivers, J Hydrodyn **11**(1) 50-55 (1999), 10T1114
Experiments on self-purification of heavy metal pollutants in natural rivers, J Hydrodyn **11**(1) 20-32 (1999), 10T1115
Oncomelania's eco-hydraulic property and its utilization, J Hydrodyn **11**(1) 33-40 (1999), 10A1116
Theoretical analysis on armouring of river beds, J Hydraul Res **37**(3) 313-326 (1999), 12A1057
Grain and form resistance in gravel-bed rivers, J Hydraul Res **37**(3) 303-312 (1999), 12T1059

352O. Estuaries

Hydrodynamics and dynamics of salt water in the Martwa Vistula, Hydro-Tech Transactions **61** 31-41 (1997), 1T1088
Longitudinal profiles of salinity in the estuary of the River Tejipio-Recife-PE, Sci Eng J (Ciencia Eng) **7**(1) 18-23 (Jan-Jun 1998), 2A1070
Analysis of nonlinear behavior of shallow drought estuaries using the Stommel model, Appl Math Model **23**(1) 35-54 (Jan 1999), 6A1172
Modeling shallow water wave generation and transformation in an intertidal estuary, Coastal Eng **36**(3) 197-217 (Apr 1999), 10T1117
Physics of Estuaries and Coastal Seas (Balkema, Rotterdam, Netherlands, 1998) 11N27
Two outfalls in an estuary: Cooperative pollution minimization, J Eng Math **35**(3) 285-298 (Apr 1999), 11A1085
Two outfalls in an estuary: Optimal wasteload allocation, J Eng Math **35**(3) 273-283 (Apr 1999), 11A1086

352P. Coasts, beaches, harbors

Current-induced scour along a breakwater at Ventura Harbor, CA: Experimental study, Coastal Eng **34**(1-2) 1-22 (Jul 1998), 2T1071
Motion of large bottom particles (cobbles) in a wave-induced oscillatory flow, Coastal Eng **34**(3-4) 197-219 (Sep 1998), 3A269
Cross-shore hydrodynamics within an unsaturated surf zone, Coastal Eng **34**(3-4) 173-196 (Sep 1998), 3A1035
Effect of cross-anisotropic behavior on wave-induced seabed response, Geotechnique **48**(4) 555-561 (Aug 1998), 3A1036
Viscous free surface effect on coastal embankment hydrodynamics, Ocean Eng **26**(1) 47-65 (Jan 1999), 3A1037
Scattering of water wave by a submerged horizontal plane and a submerged permeable breakwater, Ocean Eng **26**(4) 325-341 (Apr 1999), 4T240
Observations from grid stirred turbulence: Grid characterization and application to sediment lift-off experiments, Appl Sci Res **59**(2-3) 243-254 (1997), 4A1013
Reducing the siltation of a river harbor, J Hydraul Res **36**(5) 803-814 (1998), 4A1014
Development of a comprehensive evaluation method for coastal environment and its application (Japanese), Proc JSCE **601**(VII-8) 1-12 (Aug 1998), 4T1019
Setup instabilities in the nearshore hydrodynamics, Appl Sci Res **59**(2-3) 177-190 (1997), 4A1020
Study on the influence of waves on coastal diffusion using image analysis, Appl Sci Res **59**(2-3) 191-204 (1997), 4A1021
Knowledge based expert system for design of berthing structures, Ocean Eng **26**(7) 653-673 (Jul 1999), 5A932
Instrumentation and prototype measurements at the Zeebrugge rubble mound breakwater, Coastal Eng **35**(1-2) 141-166 (Oct 1998), 5T933
Manometer tubes for coastal hydrodynamics investigations, Coastal Eng **35**(1-2) 73-84 (Oct 1998), 5A1504
Scouring of sloping cohesive sediment bed under waves (Japanese), Proc JSCE **607**(II-45) 55-67 (Nov 1998), 6A1165
Unfluidized soil responses of a silty seabed to monochromatic waves, Coastal Eng **35**(4) 283-301 (Dec 1998), 6A1169
Hardy-Cross method for analyses of nearshore current (Japanese), Proc JSCE **607**(II-45) 69-77 (Nov 1998), 6T1173
Development and improvement of the Japanese coastal wave observation network (NOWPHAS) (Japanese), Proc JSCE **609**(VI41) 1-14 (Dec 1998), 7T1598
Crescentric bedforms in the nearshore region, J Fluid Mech **381** 271-303 (Feb 1999), 8A982
Wave interaction with an upright breakwater structure, Ocean Eng **26**(10) 1003-1021 (Oct 1999), 8A988
Comparison between the kinematic wave model and the storage function runoff model: Frequency characteristic and stochastic characteristic (Japanese), Proc JSCE **614**(II-46) 21-36 (Feb 1999), 10A283
Probability method for predicting time-dependent long-term shoreline erosion, Coastal Eng **36**(3) 243-261 (Apr 1999), 10T1113
Morphological stability analysis for a long straight barred coast, Coastal Eng **36**(3) 171-195 (Apr 1999), 10T1118
BEM solution of stochastic seawater intrusion problems, Eng Anal Boundary Elements **23**(7) 529-537 (Jul 1999), 11A1087
Equilibrium beach profile model for perched beaches, Coastal Eng **36**(4) 343-357 (May 1999), 11A1088
Morphodynamic model to simulate the seasonal closure of tidal inlets, Coastal Eng **37**(1) 1-36 (Jun 1999), 11T1089
Seasonal closure of tidal inlet - Wilson Inlet: A case study, Coastal Eng **37**(1) 37-56 (Jun 1999), 11T1585
Study on the interaction of water waves with semicircular breakwater, China Ocean Eng **13**(1) 73-80 (1999), 12T1060
Wave loads on rubble mound breakwater crown walls, Coastal Eng **37**(2) 149-174 (Jul 1999), 12A1061
Three-dimensional multi-level turbulence model for tidal motion, Ocean Eng **26**(11) 1023-1038 (Nov 1999), 12T1544

352R. Ice transport

Evolution of two-layer thermohaline systems under surface cooling, J Fluid Mech **380** 117-140 (Feb 1999), 8A1524
Determination of resistance to flow in ice-covered channels using semi-logarithmic velocity distribution, J Hydrodyn **11**(1) 11-19 (1999), 10T1102

352Y. Computational techniques

Numerical simulation of cavitating flow using the upstream FEM, Appl Math Model **22**(4-5) 235-250 (Apr-May 1998), 1A1086
Locating the saltwater-freshwater interface using nonlinear programming and h-adaptive BEM, Eng Anal Boundary Elements **21**(3) 253-259 (Apr 1998), 1A1089
Numerical solution of a 2D fluidized bed model, Int J Numer Methods Fluids **28**(3) 381-394 (Sep 1998), 2A1062
Three-dimensional numerical flow modeling for estimation of maximum local scour depth, J Hydraul Res **36**(4) 579-590 (1998), 2T1067
Numerical method for the computation of the effects of an air vessel on the pressure surges in pumping systems with air entrainment, Int J Numer Methods Fluids **28**(4) 703-718 (Sep 1998), 3A1031
Numerical modeling of advection-dispersion equation in a stretched curvilinear grid using the quickest scheme, Int J Numer Methods Fluids **28**(7) 1033-1052 (Nov 1998), 4A1012
Numerical modeling of spillway flow with free drop and initially unknown discharge, J Hydraul Res **36**(5) 785-801 (1998), 4T1022
Numerical simulation model of flood-induced flows in urban residential area and the study of damage reduction (Japanese), Proc JSCE **600**(II-44) 23-36 (Aug 1998), 4A1023
Non-oscillatory scheme for open channel flows, Adv Water Resources **22**(2) 133-143 (Oct 1998), 5A924
Analysis of hydraulic components using computational fluid dynamics models, Proc Inst Mech Eng C **212**(C7) 619-629 (1998), 5A934
High performance computing as a tool for groundwater cleanup, J Hydraul Res **36**(6) 897-912 (1998), 6A1517
Two-dimensional shallow water flow model for the hydraulic jump, Int J Numer Methods Fluids **29**(4) 375-387 (Feb 1999), 7A945
Numerical study on the effects of air valve characteristics on pressure surges during pump trip in pumping systems with air entrainment, Int J Numer Methods Fluids **29**(6) 645-655 (Mar 1999), 8A979
Galerkin methods for transport in ground water, Appl Math Comput **100**(2-3) 249-263 (May 1999), 8A985
Lake bed classification using acoustic data, Appl Math Comp Sci **8**(4) 841-864 (1998), 10A412
Numerical computation of open channel flow with shock wave using FDS method (Japanese), Proc JSCE **614**(II-46) 37-49 (Feb 1999), 10A1104
Accuracy of the Taylor-Galerkin model for contaminant transport in groundwater, Appl Math Comput **102**(2-3) 109-119 (Jul 1999), 10A1111
Flux-corrected transport technique for open channel flow, Int J Numer Methods Fluids **29**(8) 951-973 (Apr 1999), 10A1195
Three numerical numerical modeling of bed changes in a sand trap, J Hydraul Res **37**(2) 189-198 (1999), 11A1084
Large-eddy simulation of flow in a rectangular open channel, J Hydraul Res **37**(3) 345-361 (1999), 12T1053
Hydraulic ram analysis: A new look at an old problem, Proc Inst Mech Eng A **213**(A2) 127-141 (1999), 12A1054
Two-dimensional computational model to simulate suspended sediment transport and bed changes, J Hydraul Res **37**(3) 327-344 (1999), 12T1058

352Z. Experimental techniques

Experimental study on the fluidelastic forces for two staggered circular cylinders in cross-flow, J Fluids Struct **12**(3) 259-294 (Apr 1998), 1T1084
Capacitance tomographic system for the measurement of void fraction in transient cavitation, J Hydraul Res **36**(4) 707-719 (1998), 2A1065
Laboratory measurements of current flow using cross correlation on acoustic backscattering from suspended sediments, J Acoust Soc Am **104**(3-PT1) 1345-1355 (Sep 1998), 2A1072
Sea-bottom profile: Remote determination problem in geometrical approach, Acta Phys Polonica A **93**(S) 41-54 (1998), 2T1483
Pipeline leak detection by impulse response extraction, J Fluids Eng **120**(4) 833-838 (Dec 1998), 3A1032
Hydrodynamic study of the Olmsted wicket gate using a 1:25-scale model, Mech Syst Signal Processing **12**(5) 661-677 (Sep 1998), 4A258
Study on the influence of waves on coastal diffusion using image analysis, Appl Sci Res **59**(2-3) 191-204 (1997), 4A1021
Initial stages of dam-break flow, J Fluid Mech **374** 407-424 (Nov 1998), 5A923
Status of measurement techniques for coastal sediment transport, Coastal Eng **35**(1-2) 17-45 (Oct 1998), 5A930
Instrumentation and prototype measurements at the Zeebrugge rubble mound breakwater, Coastal Eng **35**(1-2) 141-166 (Oct 1998), 5T933
Instrument for field measurement of wave impact pressures and seawater aeration, Coastal Eng **35**(1-2) 103-122 (Oct 1998), 5A935
Examination of the flow near the leading edge of attached cavitation - Part 1: Detachment of 2D and axisymmetric cavities, J Fluid Mech **376** 61-90 (Dec 1998), 6A1159
Correlations between dispersion and structure in porous media probed by nuclear magnetic resonance, Phys Fluids **11**(2) 259-267 (Feb 1999), 7A944
Nuclear magnetic resonance as a tool to study flow, Annu Rev Fluid Mech **31** 95-123 (1999), 7A1041
Estimating uncertainty in thermal systems analysis and design, Appl Thermal Eng **19**(1) 51-73 (Jan 1999), 7A1354
Electrical measurement of sediment layer thickness under suspension flows, Exp Fluids **26**(5) 470-474 (Apr 1999), 10A1112
Computation of flow through a fluid-sediment interface in a benthic chamber, Phys Fluids **11**(6) 1395-1405 (Jun 1999), 11A1090
Application of an acoustic particle flux profiler in particle-laden open-channel flow, J Hydraul Res **37**(3) 407-419 (1999), 12A1062

354. INCOMPRESSIBLE FLOW

354A. General theory

Fluid Mechanics: An Interactive Text (ASCE, Reston, VA, 1998) 1R22
Proceedings of the 1998 ASME Fluids Engineering Division Summer Meeting: FEDSM98 (ASME, New York, 1998) 1N26
Finite time transport in aperiodic flows, Physica D **119**(3-4) 352-380 (Aug 1998), 1A1103
Floating, Flowing, Flying (Kluwer, Netherlands, 1998) 2N23
In Fascination of Fluid Dynamics (Kluwer, Netherlands, 1998) 2N24
Axisymmetric solutions of the Euler equations for polytropic gases, Arch Rational Mech Anal **142**(3) 253-279 (1998), 2A1073
Biorthogonality condition for axisymmetric Stokes flow in a toroidal region, Appl Math Comput **97**(2-3) 255-259 (Dec 1998), 2T1074
Effective equations of a viscous incompressible fluid flow through a filter of finite thickness, Commun Pure Appl Math **51**(9-10) 1073-1121 (Sep-Oct 1998), 2A1075
Contribution to the physical analysis of separated flows past 3D humps, Eur J Mech B **17**(3) 307-329 (May-Jun 1998), 2A1160
Error indicators for the Navier-Stokes equations in stream function and vorticity formulation, Numer Math **80**(2) 181-206 (Aug 1998), 3A44
Leray's self-similar solutions of the Navier-Stokes equations satisfying local energy estimates, Arch Rational Mech Anal **143**(1) 29-51 (1998), 3A1038
Limits of potential theory in rudder flow predictions, Ship Tech Res **45**(3) 141-155 (Jul 1998), 3A1039
Pseudo-plane motions, Arch Rational Mech Anal **143**(1) 53-75 (1998), 3A1040
Secondary flow in a Hele-Shaw cell, J Fluid Mech **372** 25-44 (Oct 1998), 4A1044
Laminar model for mixing in stratified flow, Arab J Sci Eng **23**(2B) 215-224 (Oct 1998), 5A936
Theories for base pressure in incompressible steady base flow, Prog Aerospace Sci **34**(7-8) 423-480 (Nov-Dec 1998), 5A937
Two-fluid model for stratified flows with curved interfaces, Int J Multiphase Flow **24**(6) 975-1004 (Sep 1998), 5T955
Fluids Engineering Division - 1998 (ASME, New York, 1998) 6N31
Hydrodynamics in Besov spaces, Arch Rational Mech Anal **145**(3) 197-214 (1998), 6A1174
A priori temporal regularity for the stream function of 2D incompressible, inviscid flow, Nonlinear Anal **35**(7) 871-884 (Mar 1999), 6T1175
Topics in Fluid Mechanics: Invited lectures given at the International Conference in memory of Professor Carlo Ferrari (Turin, Italy April 3-4, 1998), Meccanica **33**(5) 433-531 (Oct 1998), 6A1271
Introduction to Fluid Dynamics: Principles of Analysis and Design (Wiley, New York, 1998) 7R24
Introduction to Fluid Mechanics (Wiley, New York, 1999) 7R25
Averaging invariance and its consequences for fluid dynamics, Z Angew Math Mech **78**(12) 841-854 (1998), 7A954
Exterior initial boundary value problem for Navier-Stokes equations, Quart Appl Math **57**(1) 117-155 (Mar 1999), 7T955
Note on kinetic energy, dissipation and enstrophy, Phys Fluids **11**(2) 503-505 (Feb 1999), 7A956
Fundamentals of Fluid Mechanics (Wiley, New York, 1999) 8N24
New formulation of the 3D velocity-vorticity system in viscous incompressible flow, Z Angew Math Mech **79**(1) 29-36 (1999), 8A989
Formation of Moore curvature singularities in vortex sheets, J Fluid Mech **378** 233-267 (Jan 1999), 8A993
Proceedings of the 3rd International Conference on Nonlinear Mechanics (Shanghai Univ Press, PRC, 1998) 9N14
Developments in numerical modeling of cardiovascular fluid dynamics, Heat Tech **16**(2) 7-31 (1998), 9A1110
Mean field theory and coherent structures for vortex dynamics on the plane, Phys Fluids **11**(5) 1201-1207 (May 1999), 9T1111
Existence and uniqueness result for Stokes flows in a half-plane, Arch Mech **50**(4) 791-803 (1998), 10A1121
Computational Fluid Dynamics Review 1998 (World Sci Publ, Singapore, 1998) 11N6
Frontiers of Computational Fluid Dynamics 1998 (World Sci Pub, River Edge, NJ, 1998) 11N7
Effectiveness and limitations of local criteria for the identification of a vortex, Eur J Mech B **18**(2) 261-282 (Mar-Apr 1999), 11A1095
Inertial lift on an oscillating sphere in a linear shear flow, Int J Multiphase Flow **25**(4) 739-751 (Jun 1999), 11A1125
Topological Methods in Hydrodynamics (Springer-Verlag, New York, 1998) 12R24
Decay of a fluid flow in a weakly permeable domain, Z Angew Math Mech **79**(6) 427-432 (1999), 12A1063
Long time behavior of Navier-Stokes equations for 2D exterior domains (Chinese), J Xi'an Jiaotong Univ **33**(6) 77-81 (1999), 12A1064

354B. Irrotational flow

Experimental research for added mass of cylinders with reflected boundary condition (Chinese), J Dalian Univ Tech **38**(4) 475-479 (Jul 1998), 1A1090
Kutta condition for sharp edge flows, Mech Res Commun **25**(4) 415-420 (Jul-Aug 1998), 1T1091
Singularities at angular points of a trailing edge under the Joukowskii-Kutta condition, Math Methods Appl Sci **21**(10) 939-967 (Jul 1998), 1A1092
Added mass of rippled discs, J Eng Math **33**(4) 421-435 (May 1998), 2A1076
General boundary solution method for potential flow around a 2D semi-infinite body, J Shanghai Univ **2**(3) 194-197 (Sep 1998), 3A1041
Image system and surface singularity solutions for potential flow past an elliptical cylinder, IMA J Appl Math **60**(3) 299-310 (Jun 1998), 4A1024

Integral equation method for the flow in an infinite tunnel, Z Angew Math Mech **78**(11) 731-742 (1987), 4A1025
Two-dimensional steady free surface flow into a semi-infinite mat sink, Phys Fluids **10**(11) 2781-2785 (Nov 1998), 4T1026
Nonlinear viscoelastic characterization of a linear polyethylene melt in rotational and irrotational flows, J Non-Newtonian Fluid Mech **79**(2-3) 283-296 (Nov 1998), 4T1050
Ploughing flows, European J Appl Math **9**(5) 463-483 (Oct 1998), 5A954
Spreading and imbibition of viscous liquid on a porous base, Phys Fluids **11**(1) 48-57 (Jan 1999), 6A1176
Potential flow for a steady jet in a wedge, Quart J Mech Appl Math **51**(PT1) 127-140 (Feb 1999), 8A990
Stagnation points in flows about solid bodies, J Eng Math **35**(1-2) 119-134 (Feb 1999), 9A1112
Kinetical-consistent algorithms for simulation of reactive flows, SIAM J Sci Comput **20**(3) 826-843 (Oct 1998), 10T70
Effects of granular additives on transition boundaries between flow states of rimming flows, Phys Fluids **11**(8) 2020-2029 (Aug 1999), 12T1077

354C. Rotational (nonviscous) flow, vortices

Equilibrium vortex configurations in domains with boundary, Quart Appl Math **56**(3) 553-568 (Sep 1998), 1A1093
Experimental investigation of a parallel vortex-plate interaction, J Fluids Struct **12**(3) 295-314 (Apr 1998), 1A1094
Onset of unsteadiness in confined vortex flows, Fluid Dyn Res **23**(3) 125-152 (Sep 1998), 1A1095
Analysis of inviscid vortex breakdown in a semi-infinite pipe, Fluid Dyn Res **23**(4) 189-234 (Oct 1998), 2A1077
Fluid transport by dipolar vortices, Dyn Atmos Oceans **28**(2) 93-105 (Aug 1998), 2T1078
Motion of an intense vortex near topography, J Fluid Mech **367** 359-377 (Jul 1998), 2A1079
New model for intense self-similar vortices, J Propulsion Power **14**(4) 462-469 (Jul-Aug 1998), 2A1080
Rietema's hydrocyclone: A comparison of the design models, Sci Eng J (Ciencia Eng) **7**(1) 37-44 (Jan-Jun 1998), 2A1081
Stable methods for vortex sheet motion in the presence of surface tension, SIAM J Sci Comput **19**(5) 1737-1766 (Sep 1998), 2A1082
Equations describing a relaxation toward a statistical equilibrium state in the 2D perfect fluid dynamics, SIAM J Math Anal **29**(5) 1238-1255 (Sep 1998), 3A1042
Prandtl-Batchelor theory of a cylindrical eddy: Asymptotic study, SIAM J Appl Math **58**(5) 1394-1413 (Oct 1998), 3A1043
Singular evolution of a perfect fluid (French), Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **321**(10) 407-411 (Nov 1995), 3A1044
Disk-driven vortical flow structure in a cubical container, Comput Fluids **28**(1) 41-61 (Jan 1999), 4A1027
Kinematic properties of monopolar vortices in a strain flow, Fluid Dyn Res **23**(6) 319-341 (Dec 1998), 4A1028
Model for universal time scale of vortex ring formation, Phys Fluids **10**(10) 2436-2438 (Oct 1998), 4T1029
Persistence of non-axisymmetric vortices in inviscid 2D flows, J Fluid Mech **371** 141-155 (Sep 1998), 4A1030
Regularized vortex sheet evolution in 3D, J Comput Phys **146**(2) 520-545 (Nov 1998), 4A1031
Spiral wind-up of vorticity in an inviscid planar vortex, J Fluid Mech **371** 109-140 (Sep 1998), 4A1032
Stagnation points and streamline topology in vortex flows, J Fluid Mech **370** 1-27 (Sep 1998), 4A1033
Three-dimensional blade-vortex interaction in the strong vortex regime, Phys Fluids **10**(11) 2828-2845 (Nov 1998), 4A1034
Vortex rings descending in a stratified fluid, Phys Fluids **10**(11) 2819-2827 (Nov 1998), 4A1035
Experimental evidence of streamwise vortices as finite amplitude solutions in transitional plane Couette flow, Phys Fluids **10**(10) 2597-2607 (Oct 1998), 4A1036
Nonlinear viscoelastic characterization of a linear polyethylene melt in rotational and irrotational flows, J Non-Newtonian Fluid Mech **79**(2-3) 283-296 (Nov 1998), 4T1050
Experiments on vortex breakdown in a confined flow generated by a rotating disc, J Fluid Mech **370** 73-99 (Sep 1998), 4A1057
Bubmac method: A numerical method bubble dynamics in vortex core, J Hydrodyn **10**(3) 1-16 (1998), 4T1127
Analytical and numerical study of the nonlinear interaction between a point vortex and a wall-bounded shear layer, J Fluid Mech **373** 155-192 (Oct 1998), 5A938
Interaction between two oppositely signed, shielded, monopolar vortices, Phys Fluids **10**(12) 3099-3110 (Dec 1998), 5T939
Model of heavy particle dispersion by organized vortex structures wrapped around a columnar vortex core, Phys Fluids **10**(12) 3236-3238 (Dec 1998), 5A940
Three-dimensional instability of anticyclonic swirling flow in rotating fluid: Laboratory experiments and related theoretical predictions, Phys Fluids **10**(12) 3194-3202 (Dec 1998), 5A961
Circulation and formation number of laminar vortex rings, J Fluid Mech **376** 297-318 (Dec 1998), 6A1177
Experimental study of vortex breakdown in swirling jets, J Fluid Mech **376** 183-219 (Dec 1998), 6A1178
Simulating vortex pairs interacting with mixing-layer vortices, Fluid Dyn Res **24**(2) 61-79 (Feb 1999), 6A1257
Application of the vortex breakdown phenomenon in the attenuation of trailing vortices, Aeronaut J **102**(1018) 439-444 (Oct-Dec 1998), 6A1295
Experimental investigation of a loaded rotor blade's interaction with a single vortex, Aeronaut J **102**(1018) 451-457 (Oct-Dec 1998), 6A1298
Modified formula for the flow velocity profile in a vortex, J Fluids Eng **121**(1) 208-210 (Mar 1999), 7A957
Toward a vortex breakdown condition for swirling annular jets, J Fluids Eng **121**(1) 102-105 (Mar 1999), 7A958
Transport by coherent barotropic vortices, Annu Rev Fluid Mech **31** 55-93 (1999), 7A959
Vortex paradigm for accelerated inhomogeneous flows: Visiometrics for the Rayleigh-Taylor and Richtmyer-Meshkov environments, Annu Rev Fluid Mech **31** 495-536 (1999), 7A960
Numerical study on the vortex motion patterns around a rotating circular cylinder and their critical characters, Int J Numer Methods Fluids **29**(2) 229-248 (Jan 1999), 7A973
Collapse, symmetry breaking, and hysteresis in swirling flows, Annu Rev Fluid Mech **31** 537-566 (1999), 7A1056
Short-wavelength instability of a vortex in a multipolar strain field, Phys Fluids **11**(2) 500-502 (Feb 1999), 7T1082
Little Book of Streamlines (Academic Press, San Diego CA, 1999) 8N25
Three-dimensional structure of space-time correlation on coherent vortices generated behind dune crest, J Hydraul Res **37**(1) 59-80 (1999), 8A986
Evolution of a localized vortex disturbance in external shear flows - Part 2: Comparison with experiments in rotating shear flows, J Fluid Mech **379** 351-380 (Jan 1999), 8A991
Evolution of isolated vortices in a rotating fluid of finite depth, J Fluid Mech **381** 239-269 (Feb 1999), 8A992
Formation of Moore curvature singularities in vortex sheets, J Fluid Mech **378** 233-267 (Jan 1999), 8A993
Inverse equations, Phys Fluids **11**(3) 513-520 (Mar 1999), 8T994
Minimal geodesics on groups of volume-preserving maps and generalized solutions of the Euler equations, Commun Pure Appl Math **52**(4) 411-452 (Apr 1999), 8A995
Tendency to form non-differentiable vorticity interfaces in Euler flows, Fluid Dyn Res **24**(4) 185-188 (Apr 1999), 8A996
Cyclone and anticyclone formation in a rotating stratified fluid over a sloping bottom, J Fluid Mech **381** 199-223 (Feb 1999), 8A1020
Further results on the stability of rapidly rotating vortices in the asymmetric balance formulation, J Atmos Sci **56**(4) 475-482 (Feb 1999), 8A1166
Three-dimensional instability of Burgers and Lamb-Oseen vortices in a strain field, J Fluid Mech **378** 145-166 (Jan 1999), 8A1167
Propagation of oceanic mesoscale vortices, J Fluid Mech **380** 39-57 (Feb 1999), 8A1519
Eddy fluxes and topography in stratified quasi-geostrophic methods, J Fluid Mech **380** 59-80 (Feb 1999), 8A1523
Mean field theory and coherent structures for vortex dynamics on the plane, Phys Fluids **11**(5) 1201-1207 (May 1999), 9T1111
Free-boundary problem for Euler flows with constant vorticity, Appl Math Lett **12**(4) 101-104 (May 1999), 9A1113
Invariant for the 3D Euler equations, Appl Math Lett **12**(4) 55-58 (May 1999), 9A1114
Inviscid interactions between wake vortices and shear layers, J Aircraft **36**(2) 477-480 (Mar-Apr 1999), 9T1115
Motion of 2D vortices near boundaries in the presence of sources (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 71-76 (Jan 1999), 9A1116
Wing pitching and loading with propeller interference, J Aircraft **36**(2) 468-471 (Mar-Apr 1999), 9T1117
Generation of vorticity at a free surface, J Fluid Mech **382** 351-366 (Mar 1999), 9A1125
Stability of steady, helical vortex filaments in a tube, Phys Fluids **11**(5) 1096-1103 (May 1999), 9T1219
Dynamics of corotating vortex pairs in the wakes of flapped airfoils, J Fluid Mech **382** 155-193 (Mar 1999), 9A1261
Method for accelerating the destruction of aircraft wing vortices, J Aircraft **36**(2) 398-404 (Mar-Apr 1999), 9A1266
Particle image velocimetry study of wing-tip vortices, J Aircraft **36**(2) 482-484 (Mar-Apr 1999), 9T1306
Vortex Methods (Kluwer, Norwell, MA, 1997) 10N28
Dynamics of elevated vortices, J Atmos Sci **56**(9) 1101-1122 (May 1999), 10A1119
Scattering of acoustic waves by a vortex, J Fluid Mech **386** 305-328 (May 1999), 11A314
Asymptotic solution of the Poisson equation: Describing the 2D incompressible inviscid flow in a rotating centrifugal impeller, Z Angew Math Mech **79**(5) 353-356 (1999), 11A1091
Axisymmetric propagating vortices in the flow between a stationary and a rotating disk enclosed by a cylinder, J Fluid Mech **386** 105-126 (May 1999), 11A1092
Confined vortex breakdown generated by a rotating cone, J Fluid Mech **385** 286-323 (Apr 1999), 11A1093
Dynamic LES of colliding vortex rings using a 3D vortex method, J Comput Phys **152**(1) 305-345 (Jun 1999), 11A1094
Effectiveness and limitations of local criteria for the identification of a vortex, Eur J Mech B **18**(2) 261-282 (Mar-Apr 1999), 11A1095
Initial formation of channels and shoals in a short tidal embayment, J Fluid Mech **386** 15-42 (May 1999), 11A1096
Mechanism of vortex connection at a free surface, J Fluid Mech **384** 207-241 (Apr 1999), 11A1097
Modified near wake dynamic model for rotor analysis, Aeronaut J **103**(1021) 143-146 (Mar 1999), 11A1098
Prediction of tunnel wall upwash for delta wings including vortex breakdown effects, Aeronaut J **103**(1021) 139-142 (Mar 1999), 11A1099
Self-induced motion of a helical vortex, J Fluid Mech **384** 263-280 (Apr 1999), 11A1100
Turbulent transport in the core of a trailing half-delta-wing vortex, J Fluid Mech **387** 151-175 (May 1999), 11A1101
Impact of an ideal fluid jet on a curved wall: The inverse problem, Eur J Mech B **18**(2) 283-294 (Mar-Apr 1999), 11A1224
Generalized stability analyses of asymmetric disturbances in one- and two-celled vortices maintained by radial inflow, J Atmos Sci **56**(10) 1282-1307 (May 1999), 11T1581
Dynamics of vortex filaments and their core structure, J Shanghai Univ **3**(2) 87-94 (Jun 1999), 12A1065
Evolution and saturation of instabilities of 2D isolated circular vortices, J Fluid Mech **388** 217-257 (Jun 1999), 12A1066
Vortex generation by line plumes in a rotating stratified fluid, J Fluid Mech **388** 289-313 (Jun 1999), 12A1067
Three-dimensional stability of a vortex pair, Phys Fluids **11**(8) 2069-2077 (Aug 1999), 12A1182
Orientation averages for vortex models of turbulence, Phys Fluids **11**(8) 2381-2386 (Aug 1999), 12A1191

354D. Viscous flow

Instabilities of conical flows causing steady bifurcations, J Fluid Mech **366** 33-85 (Jul 1998), 1A116
Effect of the side walls on the flow over a moving plane wall, Appl Mech Eng **2**(3) 415-432 (1997), 1A1096
Effects of the side walls in generalized Couette flow, Appl Mech Eng **3**(2) 271-286 (1998), 1A1097
Squeezing of a micropolar fluid between two plates, Appl Mech Eng **2**(3) 369-377 (1997), 1T1098
Rapid BEM for modeling viscous flow within asymptotically-thin gaps, J Trib **120**(4) 710-715 (Oct 1998), 2A101
Effective equations of a viscous incompressible fluid flow through a filter of finite thickness, Commun Pure Appl Math **51**(9-10) 1073-1121 (Sep-Oct 1998), 2A1075
Multigrid strategies for viscous flow solvers on anisotropic unstructured meshes, J Comput Phys **145**(1) 141-165 (Sep 1998), 2T1083
Oscillatory motions of circular disks and nearly spherical particles in viscous flows, J Fluid Mech **367** 329-358 (Jul 1998), 2A1084
Spectral method for the flow between two concentric rotating spheres (Chinese), Chinese J Comput Mech **15**(3) 253-262 (Aug 1998), 2T1085
Separation and instabilities in the viscous flow over airfoil leading edges, Comput Fluids **27**(8) 903-921 (Nov 1998), 2A1156
Spatio-temporal instability in free ultra-thin films, Eur J Mech B **17**(3) 371-384 (May-Jun 1998), 2A1190
Effect of filter width and numerical viscosity for large-eddy simulation around a square cylinder (Japanese), Proc JSCE **598**(I-44) 227-238 (Jul 1998), 3A1045
Local mesh adaptation technique for front tracking problems, Int J Numer Methods Fluids **28**(4) 719-736 (Sep 1998), 3A1046
Electrolytes: Transport Phenomena, Methods for Calculation of Multicomponent Solutions, and Experimental Data on Viscosities and Diffusion Coefficients (Begell House, New York, 1998) 4N26
Experimental evidence of streamwise vortices as finite amplitude solutions in transitional plane Couette flow, Phys Fluids **10**(10) 2597-2607 (Oct 1998), 4A1036
Fluid flow behavior in a curved annular conduit, Int J Non-Linear Mech **34**(1) 13-25 (Jan 1999), 4A1037
Gravity-driven creeping flow of two adjacent layers through a channel and down a plane wall, J Fluid Mech **371** 345-376 (Sep 1998), 4A1038
Higher-order unstructured domain decomposition method for Navier-Stokes equations, Comput Fluids **28**(1) 87-120 (Jan 1999), 4A1039
Stagnation-saddle points and flow patterns in Stokes flow between contra-rotating cylinders, J Fluid Mech **370** 221-247 (Sep 1998), 4A1040
Viscous flow with large fluid-fluid interface displacement, Int J Numer Methods Fluids **28**(5) 859-881 (Oct 1998), 4A1041
Rotatory oscillations of arbitrary axisymmetric bodies in an axisymmetric viscous flow: Numerical solutions, Phys Fluids **10**(11) 2797-2818 (Nov 1998), 4T1049
Stress singularity in surfactant-driven thin-film flows - Part 1: Viscous effects, J Fluid Mech **372** 273-300 (Oct 1998), 4A1068
Integral transform solution of boundary layer equations in stream function-only formulation, Int J Non-Linear Mech **34**(1) 51-61 (Jan 1999), 4A1155
Instabilities and singularities in Hele-Shaw flow, Phys Fluids **10**(11) 2701-2723 (Nov 1998), 4A1197
Simulation of 3D polymer mold filling processes using a pseudo-concentration method, Int J Numer Methods Fluids **28**(9) 1355-1369 (Dec 1998), 5A941
Viscous flow about a submerged circular cylinder induced by free-surface traveling waves, J Fluid Mech **374** 173-194 (Nov 1998), 5A957
Vectorized directional sweep based parallelization method for factored alternating direction implicit schemes, Int J Comput Fluid Dyn **10**(4) 291-299 (1998), 6A87
Characterization of viscous fingering in a radial Hele-Shaw cell by image analysis, Exp Fluids **26**(1-2) 153-160 (Jan 1999), 6A1179
Spin coating and air-jet blowing of thin viscous drops, Phys Fluids **11**(1) 30-47 (Jan 1999), 6A1180
Stokes flow in a rectangular cavity with a cylinder, Fluid Dyn Res **24**(2) 81-102 (Feb 1999), 6A1181
Viscous liquid film flows over a periodic surface, Int J Multiphase Flow **24**(7) 1139-1161 (Nov 1998), 6A1182
Generalized variational principles for 1D unsteady viscous flow, Int J Turbo Jet Engines **15**(4) 253-258 (1998), 7A961
Longitudinal flow past cylinders arranged in a triangular array, Appl Math Model **23**(3) 219-230 (Mar 1999), 7A962
Observation of cusps during the leveling of free surfaces in viscous flows, J Fluid Mech **377** 137-149 (Dec 1998), 7A963
Review of vorticity conditions in the numerical solution of the ζ-ψ equations, Comput Fluids **28**(2) 139-185 (Feb 1999), 7A964
Stokes flow in the presence of a planar interface covered with incompressible surfactant, Phys Fluids **11**(2) 251-258 (Feb 1999), 7T971
Particle arrestance modeling within fibrous porous media, J Fluids Eng **121**(1) 155-162 (Mar 1999), 7A977
Operator splitting numerical scheme for thermal-isothermal incompressible viscous flows, Int J Numer Methods Fluids **29**(4) 397-410 (Feb 1999), 7A986
Growth of leading-edge distortions on a viscous sheet, Phys Fluids **11**(2) 307-313 (Feb 1999), 7A1079
Intermediate Finite Element Method: Fluid Flow and Heat Transfer Applications (Taylor & Francis, Philadelphia, PA, 1999) 8R2
Formation of cusp on the free surface at low Reynolds number flow, Phys Fluids **11**(3) 521-526 (Mar 1999), 8A997
Initial value problem for a generalized Boussinesq model, Nonlinear Anal **36**(4) 457-480 (May 1999), 8A998
Numerical analysis of the deformation of an adherent drop under shear flow, J Biomech Eng **121**(2) 160-169 (Apr 1999), 8A999
Numerical simulation of viscous flow: Buckling of planar jets, Int J Numer Methods Fluids **29**(6) 705-718 (Mar 1999), 8A1000
Radial displacement of a fluid annulus in a rotating Hele-Shaw cell, Phys Fluids **11**(4) 778-785 (Apr 1999), 8A1001
Three-dimensional FE analysis of transient fluid flow with free-surface using marker surface method and adaptive grid refinement, Int J Numer Methods Fluids **29**(6) 657-684 (Mar 1999), 8A1002
In-plane oscillations of a thin screen at low Reynolds numbers, Z Angew Math Mech **79**(2) 139-143 (1999), 8T1005
Two-layer thermal convection in miscible viscous fluids, J Fluid Mech **379** 223-253 (Jan 1999), 8A1012

Dry arches within flowing films, Phys Fluids **11**(4) 845-852 (Apr 1999), 8A1031
Bursting of viscous films, Phys Fluids **11**(3) 737-739 (Mar 1999), 8A1169
Explicit, totally analytical approximate solution for Blasius' viscous flow problems, Int J Non-Linear Mech **34**(4) 759-778 (Jul 1999), 9A1118
Numerical prediction of force on rectangular cylinders in oscillating viscous flow, J Fluids Struct **13**(2) 225-249 (Feb 1999), 9A1119
Numerical study of sedimentation by dripping instabilities in viscous fluids, Int J Multiphase Flow **25**(2) 307-320 (Mar 1999), 9A1185
Regularization of blood motion fields by modified Navier-Stokes equations, Med Eng Phys **21**(1) 27-36 (Jan 1999), 9A1582
Viscous effects in wave-body interaction, Int J Offshore Polar Eng **8**(1) 39-45 (Mar 1998), 10A319
Effect of a sawtooth boundary on Couette flow, Comput Fluids **28**(6) 801-813 (Jul 1999), 10A1120
Existence and uniqueness result for Stokes flows in a half-plane, Arch Mech **50**(4) 791-803 (1998), 10A1121
Unsteady flow of a viscous fluid due to an oscillating plane wall, Appl Mech Eng **3**(3) 465-478 (1998), 10T1122
Spatially-periodic steady solutions to the 3D Navier-Stokes equation with the ABC-force, Physica D **128**(2-4) 250-272 (Apr 1999), 10A1123
Implicit time integration of semi-discrete viscous fluxes on unstructured dynamic meshes, Int J Numer Methods Fluids **29**(8) 975-996 (Apr 1999), 10A1126
Heave oscillations of a submerged vertical cylinder in a viscous fluid, Int J Offshore Polar Eng **8**(3) 173-181 (Sep 1998), 10A1239
Hydrodynamic coefficients of rolling rectangular cylinders, Int J Offshore Polar Eng **8**(4) 241-250 (Dec 1998), 10A1240
Numerical prediction of viscous propeller flows, Ship Tech Res **46**(1) 35-42 (Feb 1999), 10A1257
Finite element analysis of steady viscous flow in triangular cavities, Proc Inst Mech Eng C **213**(C3) 263-276 (1999), 11A48
Numerical simulation of axisymmetric non-Newtonian free surface flows, Appl Mech Eng **4**(S) 121-126 (1999), 11T1102
Numerical study of projection algorithms in the FE simulation of 3D viscous incompressible flow, Int J Numer Methods Fluids **30**(3) 233-256 (Jun 1999), 11A1103
Uniformly valid analytic solution of 2D viscous flow over a semi-infinite flat plate, J Fluid Mech **385** 101-128 (Apr 1999), 11A1104
Unsteady viscous flow past an impulsively started oscillating and translating elliptic cylinder, J Eng Math **35**(3) 339-357 (Apr 1999), 11A1110
Flow through and particle interception by an infinite array of closely-spaced circular cylinders, Eur J Mech B **18**(2) 173-196 (Mar-Apr 1999), 11A1124
Numerical simulation of axisymmetric viscous flows by means of a particle method, J Comput Phys **152**(1) 1-31 (Jun 1999), 11T1142
Velocity-vorticity formulation with vortex particle-in-cell method for incompressible viscous flow simulation - Part I: Formulation and validation, Numer Heat Transfer B **35**(3) 251-275 (Apr-May 1999), 11A1146
Velocity-vorticity formulation with vortex particle-in-cell method for incompressible viscous flow simulation - Part II: Application to vortex-wall interactions, Numer Heat Transfer B **35**(3) 277-294 (Apr-May 1999), 11A1147
Particle dispersion in variable density and viscosity shear flows, Phys Fluids **11**(6) 1373-1386 (Jun 1999), 11A1171
Development of a bubble rising in a viscous liquid, J Fluid Mech **387** 61-96 (May 1999), 11A1179
Optimization of viscous mixing in a 2D cavity transfer mixer, Flow Turbulence Combust **60**(4) 377-407 (1998), 12A116
Characteristics of laminar viscous shear-thinning fluid flows in eccentric annular channels, J Non-Newtonian Fluid Mech **84**(1) 1-17 (Jul 1999), 12A1068
Flow due to parallel disks rotating about non-coincident axis with one of them oscillating in its plane, Int J Non-Linear Mech **34**(6) 1019-1030 (Nov 1999), 12A1069
Fringe region technique and the Fourier method used in the direct numerical simulation of spatially evolving viscous flows, SIAM J Sci Comput **20**(4) 1365-1393 (Feb 1999), 12A1070
Miscible quarter five-spot displacements in a Hele-Shaw cell and the role of flow-induced dispersion, Phys Fluids **11**(7) 1705-1716 (Jul 1999), 12T1071
Pushing a non-Newtonian fluid in a Hele-Shaw cell: From fingers to needles, Phys Fluids **11**(7) 1757-1767 (Jul 1999), 12A1072

354E. Three-dimensional flow

Singular evolution of a perfect fluid (French), Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **321**(10) 407-411 (Nov 1995), 3A1044
Unsteady viscous flow in 3D and around plane surfaces, J Appl Math Mech **62**(3) 483-488 (1998), 5A942
Spatially-periodic steady solutions to the 3D Navier-Stokes equation with the ABC-force, Physica D **128**(2-4) 250-272 (Apr 1999), 10A1123
Investigation of the vortex-wave wake behind a hydrofoil, Ship Tech Res **46**(1) 8-13 (Feb 1999), 10A1253
Direct numerical simulation of unsteady finite-span hydrofoil flow, AIAA J **37**(5) 529-536 (May 1999), 11A1105

354F. Low Reynolds number (incl creeping flow)

Boundary element analysis of the fluid flow around micromoters, Eng Anal Boundary Elements **21**(3) 277-284 (Apr 1998), 1A1099
Computer extended series solution for unsteady flow in a contracting or expanding pipe, IMA J Appl Math **60**(2) 151-165 (Apr 1998), 1A1100
Crumbling of a viscous prism with an inclined free surface, Arch Appl Mech **68**(6) 407-421 (Jul 1998), 1A1101
Splitting techniques for the unsteady Stokes equations, SIAM J Numer Anal **35**(4) 1646-1662 (May 1998), 1A1102
Velocity-vorticity formulation of the 2D Stokes system and its FE approximation, Int J Comput Fluid Dyn **10**(1) 27-43 (1998), 2T49
Low-Reynolds-number flow over partially covered cavities, J Eng Math **34**(1-2) 3-20 (Jul 1998), 2A1086
Method of fundamental solutions for Stokes flows with a free surface, Numer Methods PDE **14**(5) 667-678 (Sep 1998), 2A1087
Mixed spectral-wavelet method for the solution of the Stokes problem, J Comput Phys **145**(1) 297-315 (Sep 1998), 2T1088
Note on complete general solutions of Stokes equations, Quart J Mech Appl Math **51**(3) 383-388 (Aug 1998), 2A1089
Radial fingering in a Hele-Shaw cell: A weakly nonlinear analysis, Physica D **120**(3-4) 315-328 (Sep 1998), 2A1090
Stokes flow in closed, rectangular domains, Appl Math Model **22**(9) 727-743 (Sep 1998), 3A1047
Stokes flow through an array of staggered strips, Appl Sci Res **59**(1) 27-41 (1997), 3A1048
Viscous fingering in percolation cluster (Chinese), J Huazhong Univ Sci Tech **26**(8) 61-63 (Aug 1998), 4A122
Delayed-die swell and sedimentation of elongated particles in wormlike micellar solutions, J Non-Newtonian Fluid Mech **79**(2-3) 157-171 (Nov 1998), 4A528
Gravity-driven creeping flow of two adjacent layers through a channel and down a plane wall, J Fluid Mech **371** 345-376 (Sep 1998), 4A1038
Eigensystems of the Stokes operator discretized by the Q1-P0 FEM, Commun Numer Methods Eng **14**(10) 959-961 (Oct 1998), 4A1042
General solution of the particle momentum equation in unsteady Stokes flows, J Fluid Mech **370** 53-72 (Sep 1998), 4A1043
Secondary flow in a Hele-Shaw cell, J Fluid Mech **372** 25-44 (Oct 1998), 4A1044
Selection in the Saffman-Taylor finger problem and the Taylor-Saffman bubble problem without surface tension, Appl Math Lett **11**(6) 57-62 (Nov 1998), 4A1045
Solution of Stokes equations by moving least squares, Commun Numer Methods Eng **14**(10) 907-920 (Oct 1998), 4A1046
Stable FEM for the axisymmetric three-field Stokes system, Comput Methods Appl Mech Eng **164**(3-4) 267-286 (Oct 1998), 4A1047
Boundary element method for the solution of Stokes equations in 2D domains, Eng Anal Boundary Elements **22**(4) 317-326 (Dec 1998), 5A943
Discontinuous spectral element approximations for the velocity-pressure-stress formulation of the Stokes problem, Int J Numer Methods Eng **43**(8) 1401-1419 (Dec 1998), 5A944
Slow translational, rotation or oscillation of a disk in a rotating fluid: Effect of a plane wall or another disk, Quart J Mech Appl Math **51**(4) 495-513 (Nov 1998), 5A945
Stabilized FEMs with fast iterative solution algorithms for the Stokes problem, Comput Methods Appl Mech Eng **166**(1-2) 115-129 (Nov 1998), 5A946
Brinkman screening and the covariance of the fluid velocity in fixed beds, Phys Fluids **10**(12) 3035-3040 (Dec 1998), 5T1003
Stokes flow in a rectangular cavity with a cylinder, Fluid Dyn Res **24**(2) 81-102 (Feb 1999), 6A1181
Stokes flow around cylinders in a bounded 2D domain using multipole-accelerated BEMs, Int J Numer Methods Eng **44**(7) 897-917 (Mar 1999), 7A965
Stokes flow past a permeable circular cylinder, Mech Res Commun **26**(1) 107-113 (Jan-Feb 1999), 7T966
Displacement of 3D fluid droplets from solid surfaces in low-Reynolds-number shear flows, J Fluid Mech **377** 189-222 (Dec 1998), 7A1028
Axisymmetric creeping flow past a porous prolate spheroidal particle using the Brinkman model, Quart J Mech Appl Math **51**(PT1) 111-126 (Feb 1999), 8A1003
Comparison of integral formulations for the analysis of low Reynolds number flows, Eng Anal Boundary Elements **23**(4) 307-315 (Apr 1999), 8A1004
In-plane oscillations of a thin screen at low Reynolds numbers, Z Angew Math Mech **79**(2) 139-143 (1999), 8T1005
Capillary effect of viscous fingering in porous media, J Huazhong Univ Sci Tech **26**(SII) 59-61 (Nov 1998), 9A1120
Cusped ripples at the plane surface of a viscous liquid, Arch Appl Mech **69**(1) 36-46 (Feb 1999), 9A1121
Fluid flow near a porous wall with suction (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 241-244 (Feb-Mar 1999), 9A1122
Vorticity-velocity formulations of the Stokes problem in 3D, Math Methods Appl Sci **22**(6) 531-546 (Apr 1999), 9A1123
Blade coating of a power-law fluid, Phys Fluids **11**(5) 958-970 (May 1999), 9T1134
Evolution of interfacial voids around cylindrical inclusion, J Appl Mech **66**(2) 310-314 (Jun 1999), 10A571
Hele-Shaw flows with time-dependent free boundaries involving an infinite strip of fluid, Quart Appl Math **57**(2) 201-212 (Jun 1999), 10A1124
High-velocity flow in a rough fracture, J Fluid Mech **383** 1-28 (Mar 1999), 10A1125
Plugging by hydrodynamic bridging during flow of stable colloidal particles within cylindrical pores, J Fluid Mech **385** 129-156 (Apr 1999), 11A1033
Approximations of the Stokes Dirichlet problem in domains with cylindrical outlets, SIAM J Math Anal **30**(3) 645-677 (Mar 1999), 11A1106
Batchelor-Wood formula for negative wall velocity, Phys Fluids **11**(6) 1685-1687 (Jun 1999), 11T1107
Chaotic streamlines in steady bounded 3D Stokes flows, Physica D **130**(1-2) 105-132 (Jun 1999), 11A1108

354G. Unsteady flow

Experimental research for added mass of cylinders with reflected boundary condition (Chinese), J Dalian Univ Tech **38**(4) 475-479 (Jul 1998), 1A1090
Onset of unsteadiness in confined vortex flows, Fluid Dyn Res **23**(3) 125-152 (Sep 1998), 1A1095
Computer extended series solution for unsteady flow in a contracting or expanding pipe, IMA J Appl Math **60**(2) 151-165 (Apr 1998), 1A1100
Finite time transport in aperiodic flows, Physica D **119**(3-4) 352-380 (Aug 1998), 1A1103
Numerical study of the flow pattern and the in-line response of a flexible cylinder in an oscillating stream, J Fluids Struct **12**(3) 225-258 (Apr 1998), 1A1104
Numerical simulation of a thermoacoustic refrigerator - Part II: Stratified flow around the stack, J Comput Phys **144**(2) 299-324 (Aug 1998), 2A77
Added mass of rippled discs, J Eng Math **33**(4) 421-435 (May 1998), 2A1076
Thermovibrational convection in a fluid cell, Comput Fluids **27**(8) 923-939 (Nov 1998), 2A1100
Creation of stagnation points in a rotating flow, J Fluids Eng **120**(4) 685-689 (Dec 1998), 3A1049
Flow structure in a Rayleigh-Benard cell upon impulsive spin-up, J Fluids Eng **120**(4) 672-675 (Dec 1998), 3A1050
Nonlinear spin-up of a rotating stratified fluid: Theory, J Fluids Eng **120**(4) 662-666 (Dec 1998), 3A1051
Translating and transversely oscillating cylinder - Part 2: Effect of the velocity ratio on the hydrodynamic forces and the near-wake structure, Ocean Eng **26**(1) 21-45 (Jan 1999), 3A1052
Nonlinear spin-up of a rotating stratified fluid: Experimental method and preliminary results, J Fluids Eng **120**(4) 667-671 (Dec 1998), 3A1058
Unsteady stall control using dynamically deforming airfoils, AIAA J **36**(10) 1792-1800 (Oct 1998), 3A1180
Continuity of lifting surface theory in subsonic and supersonic flow, AIAA J **36**(10) 1788-1791 (Oct 1998), 3A1184
General solution of the particle momentum equation in unsteady Stokes flows, J Fluid Mech **370** 53-72 (Sep 1998), 4A1043
Improved laminar predictions using a stabilized time-dependent simple scheme, Int J Numer Methods Fluids **28**(5) 841-857 (Oct 1998), 4A1048
Rotatory oscillations of arbitrary axisymmetric bodies in an axisymmetric viscous flow: Numerical solutions, Phys Fluids **10**(11) 2797-2818 (Nov 1998), 4T1049
Periodic unsteady flows of a non-Newtonian fluid, Acta Mech **131**(3-4) 169-175 (1998), 4A1071
Unsteady blood flow in a helically symmetric pipe, J Fluid Mech **370** 321-345 (Sep 1998), 4A1572
Transition of unsteady velocity profiles with reverse flow, J Fluid Mech **374** 251-283 (Nov 1998), 5A947
Unsteady crossflow separation location measurements on a maneuvering 6:1 prolate spheroid, AIAA J **36**(11) 2063-2071 (Nov 1998), 5A948
Three-dimensional numerical simulation of turbulent flow around two high-rise buildings in proximity, Wind Struct **1**(3) 271-284 (Sep 1998), 5A965
Bluff-body propulsion produced by combined rotary and translational oscillation, Phys Fluids **11**(1) 4-6 (Jan 1999), 6A1183
Time-dependent plane Poiseuille flow of a Johnson-Segalman fluid, J Non-Newtonian Fluid Mech **82**(1) 105-123 (Apr 1999), 7A967
Unsteady lift force on a towed sphere, J Fluids Struct **12**(8) 949-958 (Nov 1998), 8A260
In-plane oscillations of a thin screen at low Reynolds numbers, Z Angew Math Mech **79**(2) 139-143 (1999), 8T1005
Investigation of unsteady boundary layer developed on a rotationally oscillating circular cylinder, AIAA J **37**(3) 328-336 (Mar 1999), 8A1006
Planar symmetry in the unsteady wake of a sphere, AIAA J **37**(3) 388-390 (Mar 1999), 8T1007
Time-dependent response of a floating flexible plate to an impulsively started steadily moving load, J Fluid Mech **381** 337-355 (Feb 1999), 8A1008
Vortex shedding resonance from a rotationally oscillating cylinder, J Fluids Struct **12**(8) 1041-1053 (Nov 1998), 8A1028
Numerical prediction of force on rectangular cylinders in oscillating viscous flow, J Fluids Struct **13**(2) 225-249 (Feb 1999), 9A1119
Reynolds number variation in oscillatory boundary layers - Part I: Purely oscillatory motion, Coastal Eng **36**(2) 111-146 (Mar 1999), 9T1124
Implicit time integration of semi-discrete viscous fluxes on unstructured dynamic meshes, Int J Numer Methods Fluids **29**(8) 975-996 (Apr 1999), 10A1126
Numerical simulation of the unsteady flow past a hydrofoil, Ship Tech Res **46**(1) 14-30 (Feb 1999), 10A1127
Study of 2D flow past an oscillating cylinder, J Fluid Mech **385** 255-286 (Apr 1999), 11A1109
Unsteady viscous flow past an impulsively started oscillating and translating elliptic cylinder, J Eng Math **35**(3) 339-357 (Apr 1999), 11A1110
Flow due to parallel disks rotating about non-coincident axis with one of them oscillating in its plane, Int J Non-Linear Mech **34**(6) 1019-1030 (Nov 1999), 12A1069
Spin-up in a tank induced by a rotating bluff body, J Fluid Mech **388** 49-68 (Jun 1999), 12A1078

354H. Secondary flow

Two-dimensional time dependent simulation of the subcritical flow in a staggered tube bundle using a subgrid scale model, Int J Heat Fluid Flow **20**(2) 105-114 (Apr 1999), 8A1009

354I. Thermal convection flow

Aspects of the decay of convective turbulence, Fluid Dyn Res **23**(3) 161-176 (Sep 1998), 1A1197
Effects of temperature-dependent viscosity variations and boundary conditions on fully developed laminar forced convection in a semicircular duct, J Heat Transfer **120**(3) 600-605 (Aug 1998), 1A1290
Effect of channel orientation of local heat (mass) transfer distributions in a rotating two-pass square channel with smooth walls, J Heat Transfer **120**(3) 624-632 (Aug 1998), 1A1298
Maragoni-Benard convection with a deformable free surface, J Comput Phys **145**(1) 193-227 (Sep 1998), 2A1091
Effect of the Coriolis force on thermal convection under microgravity, Theor Comput Fluid Dyn **12**(1) 53-70 (Jul 1998), 2A1097
Natural convection heat transfer between horizontal concentric rectangular pipes, Heat Transfer Japan Res **27**(4) 271-283 (1998), 2A1276
Heat transfer in a rotating cavity with a peripheral inflow and outflow of cooling air, J Turbomachinery **120**(4) 818-823 (Oct 1998), 2A1281
Flow structure in a Rayleigh-Benard cell upon impulsive spin-up, J Fluids Eng **120**(4) 672-675 (Dec 1998), 3A1050
Case study of Rayleigh-Benard convection with clouds, Boundary-Layer Meteorol **88**(2) 211-237 (Aug 1998), 3T1053
Momentum and heat transfer from cylinders in laminar crossflow at $10^{-4} \le Re \le 200$, Int J Heat Mass Transfer **41**(22) 3409-3430 (Nov 1998), 3A1224
Effects of surface roughness on forced convection and friction in triangular ducts, Exp Heat Transfer **11**(3) 241-253 (Jul-Sep 1998), 3A1228
Laminar mixed convection with viscous dissipation in a vertical channel, Int J Heat Mass Transfer **41**(22) 3501-3513 (Nov 1998), 3A1244

Evolution of laminar jets of Herschel-Bulkley fluids, Int J Heat Mass Transfer **41**(22) 3575-3588 (Nov 1998), 3A1246
Nonlinear viscoelastic characterization of a linear polyethylene melt in rotational and irrotational flows, J Non-Newtonian Fluid Mech **79**(2-3) 283-296 (Nov 1998), 4T1050
Optimal control of thermally convected fluid flows, SIAM J Sci Comput **19**(6) 1847-1869 (Nov 1998), 4T1051
Three-dimensional thermal convection caused by spacecraft rotation in a rectangular enclosure with rigid walls, Phys Fluids **10**(10) 2517-2524 (Oct 1998), 4A1052
Transient states during spin-up of a Rayleigh-Benard cell, Phys Fluids **10**(10) 2525-2538 (Oct 1998), 4A1053
Simulations of 2D and 3D thermocapillary flows by a least-squares FEM, Int J Numer Methods Fluids **28**(6) 983-1007 (Oct 1998), 4A1067
Fluid flow and heat transfer over a 3D spherical object in a pipe, J Heat Transfer **120**(4) 985-990 (Nov 1998), 4A1308
Numerical simulation on heat transfer and fluid flow characteristics of arrays with nonuniform plate length positioned obliquely to the flow direction, J Heat Transfer **120**(4) 991-998 (Nov 1998), 4A1309
Enhanced heat transfer rate measured for natural convection in liquid gallium in a cubical enclosure under a static magnetic field, J Heat Transfer **120**(4) 1027-1032 (Nov 1998), 4A1314
Fundamental issues and recent advancements in analysis of aircraft brake natural convective cooling, J Heat Transfer **120**(4) 840-857 (Nov 1998), 4A1316
Mechanical coupling of convective rolls in a high Prandtl number fluid, J Heat Transfer **120**(4) 1008-1018 (Nov 1998), 4A1317
Natural convection in a narrow horizontal annulus: The effects of thermal and hydrodynamic instabilities, J Heat Transfer **120**(4) 1019-1026 (Nov 1998), 4A1318
Basic considerations in combined buoyancy-induced and forced flow in a vertical open shaft, Numer Heat Transfer A **34**(5) 519-536 (Oct 1998), 4A1319
Bacterial bioconvection: Weakly nonlinear theory for pattern selection, J Fluid Mech **370** 249-270 (Sep 1998), 4A1568
Marangoni convection in binary mixtures with Soret effect, J Fluid Mech **375** 143-177 (Nov 1998), 5A949
Numerical and experimental investigation of thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct with rotating inner cylinder, Eur J Mech B **17**(6) 875-900 (Nov-Dec 1998), 5T950
Two-dimensional and three-dimensional numerical simulations of the transition to oscillatory convection in low-Prandtl-number fluids, J Fluid Mech **374** 145-171 (Nov 1998), 5A951
Influence of interface profile on the onset of long-wavelength Marangoni convection, Phys Fluids **10**(12) 3230-3232 (Dec 1998), 5T967
Transient temperature measurements in a convectively cooled droplet, Exp Fluids **25**(5-6) 392-400 (Oct 1998), 5A1018
Model for near-wall dynamics in turbulent Rayleigh-Benard convection, J Fluid Mech **373** 221-254 (Oct 1998), 5A1077
Multiple and unsteady solutions for buoyancy driven flows in spherical annuli, Int J Heat Mass Transfer **41**(24) 4121-4138 (Dec 1998), 5A1190
Natural convection and entropy generation in a square cavity, Int J Energy Res **22**(14) 1275-1290 (Nov 1998), 5A1191
Transition and multiplicity of flows in natural convection in a narrow horizontal cylindrical annulus: Pr = 0.4, Int J Heat Mass Transfer **42**(4) 709-722 (Feb 1999), 5A1196
Coriolis effect on gravity-driven convection in a rotating porous layer heated from below, J Fluid Mech **376** 351-375 (Dec 1998), 6A1467
Penetrative convection and multi-component diffusion in a porous medium, Adv Water Resources **22**(4) 399-412 (Dec 1998), 6A1470
Onset of convection in a rotating annulus with radial gravity and heating, Fluid Dyn Res **24**(3) 133-145 (Mar 1999), 7A974
Operator splitting numerical scheme for thermal-isothermal incompressible viscous flows, Int J Numer Methods Fluids **29**(4) 397-410 (Feb 1999), 7A986
Linear stability of thermally stratified rotating channel flow, Phys Fluids **11**(2) 439-449 (Feb 1999), 7A1080
Wall effects on heat losses from hot-wires, Int J Heat Fluid Flow **20**(1) 34-47 (Feb 1999), 7A1214
Correlation of fully developed heat transfer and pressure drop in a symmetrically grooved channel, J Heat Transfer **121**(1) 236-239 (Feb 1999), 7T1215
Three-dimensional simulation of laminar rectangular impinging jets, flow structure, and heat transfer, J Heat Transfer **121**(1) 50-56 (Feb 1999), 7A1228
Suppressing free convection from a flat plate with poor conductor ribs, Int J Heat Mass Transfer **42**(11) 2041-2051 (Jun 1999), 7A1235
Developing free convection in open-ended vertical eccentric annuli with isothermal boundaries, J Heat Transfer **121**(1) 63-72 (Feb 1999), 7A1236
Effects of property variations on natural convection in a square enclosure, J Heat Transfer **121**(1) 57-62 (Feb 1999), 7A1237
Experimental Nusselt numbers for a cubical-cavity benchmark problem in natural convection, Int J Heat Mass Transfer **42**(11) 1979-1989 (Jun 1999), 7A1239
Natural convection from a horizontal cylinder in a rectangular cavity, Int J Heat Mass Transfer **42**(10) 1801-1811 (May 1999), 7A1241
Effect of an oblique plate on the heat transfer enhancement of mixed convection over heated blocks in a horizontal channel, Int J Heat Mass Transfer **42**(7) 1217-1235 (Apr 1999), 7A1248
Predictions of turbulent heat transfer in an axisymmetric jet impinging on a heated pedestal, J Heat Transfer **121**(1) 43-49 (Feb 1999), 7A1253
Flow of a stratified fluid in a cylinder with a rotating lid, Int J Heat Fluid Flow **20**(1) 26-33 (Feb 1999), 7A1256
Heat convection from a cylinder performing steady rotation or rotary oscillation - Part I: Steady rotation, Heat and Mass Transfer Warme **34**(5) 365-373 (Feb 1999), 7A1258
Heat convection from a cylinder performing steady rotation or rotary oscillation - Part II: Rotary oscillation, Heat and Mass Transfer Warme **34**(5) 375-380 (Feb 1999), 7A1259
Buoyant convection in a non-rectangular cavity with non-vertical insulating sidewalls, Int J Heat Mass Transfer **42**(11) 2111-2217 (Jun 1999), 7T1371
Experimental and numerical study of Rayleigh-Benard convection affected by a rotating magnetic field, Phys Fluids **11**(4) 853-861 (Apr 1999), 8A1010
Numerical simulation of the Rayleigh-Benard convection of air in a box of a large aspect ratio, Phys Fluids **11**(3) 743-745 (Mar 1999), 8T1011
Two-layer thermal convection in miscible viscous fluids, J Fluid Mech **379** 223-253 (Jan 1999), 8A1012
Magnetohydrodynamic convection in molten gallium, J Fluid Mech **378** 97-118 (Jan 1999), 8A1211
Thermocapillary convection within short-duration pulse-heated liquid droplets, Numer Heat Transfer A **35**(3) 251-270 (Feb 1999), 8A1304
Natural convection in rectangular enclosures heated from one side and cooled from the ceiling, Int J Heat Mass Transfer **42**(13) 2345-2355 (Jul 1999), 8A1306
Natural convection of a two-layer fluid in a side-heated cavity, Int J Heat Mass Transfer **42**(13) 2427-2437 (Jul 1999), 8A1308
Thermal mixed convection induced locally by a step change in surface temperature in a Poiseuille flow in the framework of Triple Deck theory, Int J Heat Mass Transfer **42**(14) 2509-2524 (Jul 1999), 8A1313
Rayleigh-Benard convection subject to time dependent wall temperature in a fluid-saturated porous layer, Fluid Dyn Res **24**(5) 293-308 (May 1999), 8A1471
Kinematic dynamo action in a network of screw motions: Application to the core of a fast breeder reactor, J Fluid Mech **382** 137-154 (Mar 1999), 9A1247
Numerical study on transient heat transfer and fluid flow of natural convection in an enclosure with a heat-generating conducting body, Numer Heat Transfer A **35**(4) 415-433 (Mar 1999), 9A1332
Numerical solutions for heat transfer in a micropolar fluid over a stretching sheet, Appl Mech Eng **3**(3) 377-391 (1998), 10A1128
Prandtl number effects in convective turbulence, J Fluid Mech **383** 55-73 (Mar 1999), 10A1129
Numerical model for heat and fluid flow in food freezing, Numer Heat Transfer A **35**(5) 495-517 (Apr 1999), 10A1297
Numerical simulation of fluid flow and heat transfer in a rotating cylindrical container with a counter-rotating disk at the fluid surface, Heat Transfer Asian Res **28**(3) 172-182 (1999), 10A1317
Convective versus absolute instability in mixed Rayleigh-Benard-Poiseuille convection, J Fluid Mech **384** 243-262 (Apr 1999), 11A1111
Onset of stationary and oscillatory convection in a titled porous cavity saturated with a binary fluid: Linear stability analysis, Phys Fluids **11**(6) 1346-1358 (Jun 1999), 11A1112
Fully nonlinear 3D convection in a rapidly rotating layer, Phys Fluids **11**(6) 1469-1483 (Jun 1999), 11A1119
Control of long-wavelength Marangoni-Benard convection, J Fluid Mech **387** 321-341 (May 1999), 11A1129
Asymptotic solutions for nonlinear magnetoconvection, J Fluid Mech **387** 397-409 (May 1999), 11A1275
Developing mixed convection in an inclined tube with circumferentially nonuniform heating at its outer surface, Numer Heat Transfer A **35**(6) 609-628 (May 1999), 11A1367
Turbulent heat transfer to near-critical water in a heated curved pipe under the conditions of mixed convection, Int J Heat Mass Transfer **42**(16) 3147-3158 (Aug 1999), 11A1368
Stochastic modeling of nonisothermal flow during resin transfer molding, Int J Heat Mass Transfer **42**(16) 3057-3070 (Aug 1999), 11A1376
Numerical modeling of magnetohydrodynamic convection in a rapidly rotating spherical shell: Weak and strong field dynamo action, J Comput Phys **153**(1) 51-81 (Jul 1999), 12A1073
Onset of convective instabilities in cylindrical cavities heated from below - Part II: Effect of a magnetic field, Phys Fluids **11**(8) 2089-2100 (Aug 1999), 12T1074
Thermal offset in turbulent rotating convection, Phys Fluids **11**(8) 2101-2107 (Aug 1999), 12A1075
Use of deterministic and intelligent techniques to predict the air velocity distribution on external openings in single-sided natural ventilation configurations, Solar Energy **66**(3) 223-243 (Jun 1999), 12A1076
Onset of convective instabilities in cylindrical cavities heated from below - Part I: Pure thermal case, Phys Fluids **11**(8) 2078-2088 (Aug 1999), 12T1179
Non-isothermal laminar flow and heat transfer between disks corotating in a fixed enclosure, Int J Heat Mass Transfer **42**(17) 3291-3306 (Sep 1999), 12A1296
Free convection from a point source of heat, and heat transfer from spheres at small Grashof numbers, Int J Heat Mass Transfer **42**(20) 3849-3860 (Oct 1999), 12A1299
Prandtl number effect on bifurcation and dual solutions in natural convection in a horizontal annulus, Int J Heat Mass Transfer **42**(17) 3279-3290 (Sep 1999), 12A1306
Three-dimensional numerical analysis of natural convective liquid cooling of a 3 × 3 heater array in rectangular enclosures, Int J Heat Mass Transfer **42**(17) 3231-3244 (Sep 1999), 12A1308
Combined natural convection and volumetric radiation in a horizontal annulus: Spectral and finite volume predictions, J Heat Transfer **121**(3) 610-615 (Aug 1999), 12A1383

354J. Stratified flow and free surface flow

Free surface flow over curved surfaces - Part I: Perturbation analysis, Int J Numer Methods Fluids **28**(2) 191-200 (Aug 1998), 1A30
Free-surface flow over curved surfaces - Part II: Computational model, Int J Numer Methods Fluids **28**(2) 201-213 (Aug 1998), 1A1105
Gravity currents over porous substrates, J Fluid Mech **366** 239-258 (Jul 1998), 1A1106
Non-local anisotropic model for phase transitions: Asymptotic behavior of rescaled energies, European J Appl Math **9**(3) 261-284 (Jun 1998), 1A1107
Analytical solution to flux enhancement in laminar concentrically stratified pipe flow of Bingham and Newtonian fluids, J Fluids Eng **120**(3) 629-631 (Sep 1998), 1A1118
Volume-tracking method for incompressible multifluid flows with large density variations, Int J Numer Methods Fluids **28**(2) 357-378 (Aug 1998), 1A1126
Numerical simulation of a thermoacoustic refrigerator - Part II: Stratified flow around the stack, J Comput Phys **144**(2) 299-324 (Aug 1998), 2A77
Fluid transport by dipolar vortices, Dyn Atmos Oceans **28**(2) 93-105 (Aug 1998), 2T1078
Adaptive grid Eulerian method for the computation of free surface flows, Int J Comput Fluid Dyn **10**(3) 213-224 (1998), 2T1092
Fluid surface imaging using microlens arrays, Exp Fluids **25**(2) 126-132 (Jul 1998), 2A1093
Spatio-temporal instability in free ultra-thin films, Eur J Mech B **17**(3) 371-384 (May-Jun 1998), 2A1190
Nonlinear numerical model predictions of flow over an isolated hill of moderate slope, Boundary-Layer Meteorol **87**(3) 381-408 (Jun 1998), 2A1488
Nonlinear spin-up of a rotating stratified fluid: Theory, J Fluids Eng **120**(4) 662-666 (Dec 1998), 3A1051
Third-order Taylor-Galerkin model for the simulation of 2D unsteady free surface flows, Appl Math Model **22**(9) 641-656 (Sep 1998), 3A1054
Interaction of spinning liquid film with swirling gas in cylindrical vessel: Experiments and numerical simulations, J Fluids Eng **120**(4) 690-697 (Dec 1998), 3A1056
Nonlinear spin-up of a rotating stratified fluid: Experimental method and preliminary results, J Fluids Eng **120**(4) 667-671 (Dec 1998), 3A1058
Bubble dynamics in a compressible shear-thinning liquid, Fluid Dyn Res **23**(5) 291-318 (Nov 1998), 3A1100
Free surface of a high speed capillary jet, Appl Sci Res **59**(1) 77-88 (1997), 3A1131
Flow-front instability in viscous gravity currents, J Fluid Mech **369** 1-21 (Aug 1998), 3A1155
Three-dimensional hydrodynamic model in curvilinear coordinates with collocated grid, Int J Numer Methods Fluids **28**(7) 1109-1134 (Nov 1998), 4A255
Vortex rings descending in a stratified fluid, Phys Fluids **10**(11) 2819-2827 (Nov 1998), 4A1035
Analysis of a non-hyperbolic system modeling two-phase fluid flows: The effects of surface tension, Math Methods Appl Sci **21**(16) 1519-1542 (Nov 1998), 4A1054
Spectral method for free surface flows of inviscid fluids, Int J Numer Methods Fluids **28**(6) 887-902 (Oct 1998), 4A1055
Unsteady flow of an axisymmetric annular film under gravity, Phys Fluids **10**(10) 2500-2516 (Oct 1998), 4T1056
Far-wake of a sphere in a stably stratified fluid: Characterization of the vortex structures, Appl Sci Res **59**(2-3) 269-281 (1997), 4A1059
Low-Reynolds number spreading of axisymmetric drops and gravity currents along a free surface, Phys Fluids **10**(11) 3011-3013 (Nov 1998), 4T1126
Gravity Waves in Water of Finite Depth (Comput Mech, Billerica MA, 1997) 5R4
Bi-modal structure imposed on gravity driven boundary currents in rotating systems by effects of the bottom topography, Exp Fluids **25**(5-6) 388-391 (Oct 1998), 5A952
Kinematics at a free surface, IMA J Appl Math **61**(1) 1-13 (Sep 1998), 5A953
Ploughing flows, European J Appl Math **9**(5) 463-483 (Oct 1998), 5A954
Two-fluid model for stratified flows with curved interfaces, Int J Multiphase Flow **24**(6) 975-1004 (Sep 1998), 5T955
Two-fluid Taylor-Couette flow: Experiments and linear theory for immiscible liquids between corotating cylinders, Phys Fluids **10**(12) 3045-3055 (Dec 1998), 5T956
Viscous flow about a submerged circular cylinder induced by free-surface traveling waves, J Fluid Mech **374** 173-194 (Nov 1998), 5A957
Viscous liquid film flows over a periodic surface, Int J Multiphase Flow **24**(7) 1139-1161 (Nov 1998), 6A1182
Pressure gradient in horizontal liquid-liquid flows, Int J Multiphase Flow **24**(7) 1183-1203 (Nov 1998), 6T1184
Solution of incompressible flows with or without a free surface using the finite volume method on unstructured triangular meshes, Int J Numer Methods Fluids **29**(1) 35-57 (Jan 1999), 6A1185
Stable and conservative interface treatment of arbitrary spatial accuracy, J Comput Phys **148**(2) 341-365 (Jan 1999), 6A1186
Fast construction of extension velocities in level set methods, J Comput Phys **148**(1) 2-22 (Jan 1999), 6T1202
Numerical method for solving incompressible flow problems with a surface of discontinuity, J Comput Phys **148**(2) 366-396 (Jan 1999), 6T1204
Nonlinear adjustment of a rotating homogeneous atmosphere to zonal momentum forcing, Tellus **50A**(5) 616-636 (Oct 1998), 6T1522
Observation of cusps during the leveling of free surfaces in viscous flows, J Fluid Mech **377** 137-149 (Dec 1998), 7A963
Direct numerical simulation of free-surface and interfacial flow, Annu Rev Fluid Mech **31** 567-603 (1999), 7T968
Internal wave excitation from stratified flow over a thin barrier, J Fluid Mech **377** 223-252 (Dec 1998), 7A969
Stability of a stratified viscous shear flow in a titled tube, Phys Fluids **11**(2) 344-355 (Feb 1999), 7A970
Stokes flow in the presence of a planar interface covered with incompressible surfactant, Phys Fluids **11**(2) 251-258 (Feb 1999), 7T971
Mixing and Dispersion in Stably Stratified Flows (Oxford UP, New York, 1999) 8N26
Submaximal exchange between a convectively forced basin and a large reservoir, J Fluid Mech **378** 357-378 (Jan 1999), 8A977
Formation of cusp on the free surface at low Reynolds number flow, Phys Fluids **11**(3) 521-526 (Mar 1999), 8A997
Three-dimensional FE analysis of transient fluid flow with free-surface using marker surface method and adaptive grid refinement, Int J Numer Methods Fluids **29**(6) 657-684 (Mar 1999), 8A1002
Two-layer thermal convection in miscible viscous fluids, J Fluid Mech **379** 223-253 (Jan 1999), 8A1012
Free surfaces: Shape sensitivity analysis and numerical methods, Int J Numer Methods Eng **44**(8) 1079-1098 (Mar 1999), 8A1013
Gravity currents descending a ramp in a stratified tank, J Fluid Mech **379** 39-70 (Jan 1999), 8A1014
Long wave analysis of interfacial wave stability in vertical countercurrent two-phase flow, JSME Int J Ser B **41**(4) 880-887 (Nov 1998), 8T1015
Stability of oscillatory two-phase Couette flow: Theory and experiment, Phys Fluids **11**(4) 833-844 (Apr 1999), 8A1016
Transient, linear dynamics of a stably stratified shear flow with thermal forcing and a critical level, J Atmos Sci **56**(4) 483-499 (Feb 1999), 8T1017
Cyclone and anticyclone formation in a rotating stratified fluid over a sloping bottom, J Fluid Mech **381** 199-223 (Feb 1999), 8A1020
Dry arches within flowing films, Phys Fluids **11**(4) 845-852 (Apr 1999), 8A1031

Gravitational settling of particles through density interfaces, J Fluid Mech **381** 175-198 (Feb 1999), 8A1080
Eddy fluxes and topography in stratified quasi-geostrophic methods, J Fluid Mech **380** 59-80 (Feb 1999), 8A1523
Free Surface Flows with Viscosity (Comput Mech, Billerica MA, 1998) 9N12
Propagation and reflection of internal waves, Phys Fluids **11**(5) 1081-1090 (May 1999), 9A271
Generation of vorticity at a free surface, J Fluid Mech **382** 351-366 (Mar 1999), 9A1125
Shallow-water impact problems, J Eng Math **35**(1-2) 233-250 (Feb 1999), 9A1126
Free Surface Flows (Springer-Verlag, Vienna, 1998) 10R24
Evolution of interfacial voids around cylindrical inclusion, J Appl Mech **66**(2) 310-314 (Jun 1999), 10A571
Laboratory technique for generating a rotating, two-layer stratified channel flow, Exp Fluids **26**(5) 404-414 (Apr 1999), 10A1130
Slow manifold for the shallow water equations on the f plane, J Atmos Sci **56**(8) 1050-1054 (Apr 1999), 10T1572
Mechanism of vortex connection at a free surface, J Fluid Mech **384** 207-241 (Apr 1999), 11A1097
Simple models of Coriolis-influenced axisymmetric particle-driven gravity currents, Int J Multiphase Flow **25**(4) 715-737 (Jun 1999), 11A1113
Simulation of turbulent nonlinear free-surface flows, J Comput Phys **151**(2) 479-497 (May 1999), 11A1114
Simulation of turbulent nonlinear free-surface flows, J Comput Phys **151**(2) 425-457 (May 1999), 11T1115
Uniqueness and solvability in the linearized 2D problem of a body in a finite depth subcritical stream, European J Appl Math **10**(2) 141-155 (Apr 1999), 11A1116
Steady boundary-layer solutions for a swirling stratified fluid in a rotating core, J Fluid Mech **384** 339-374 (Apr 1999), 11A1120
Surface layer for free-surface turbulent flows, J Fluid Mech **386** 167-212 (May 1999), 11A1250
Long waves on a thin layer of conducting fluid flowing down an inclined plane in an electromagnetic field, Eur J Mech B **18**(2) 295-313 (Mar-Apr 1999), 11T1281
Dilute gravity flows: A phenomenological model in thin layer theory (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 457-462 (May 1999), 11A1511
Implication of a theorem for a class of quasi-geostrophic flows, J Atmos Sci **56**(10) 1424-1426 (May 1999), 11A1582
Three-dimensional aspects of air-sea interaction, Eur J Mech B **18**(3) 327-572 (May-Jun 1999), 12A206
Vortex generation by line plumes in a rotating stratified fluid, J Fluid Mech **388** 289-313 (Jun 1999), 12A1067
Method for capturing sharp fluid interfaces on arbitrary meshes, J Comput Phys **153**(1) 26-50 (Jul 1999), 12T1095

354K. Rotating flow or surfaces

Flow of a Vocadlo fluid in a slot between rotating surfaces of revolution, Appl Mech Eng **3**(2) 339-358 (1998), 1T1108
Shear flow around a spinning sphere: Numerical study at moderate Reynolds numbers, Int J Multiphase Flow **24**(4) 563-585 (Jun 1998), 1T1109
Response surface analysis of average residence times in a co-rotating twin screw extruder, J Mat Processing Manuf Sci **6**(1) 19-26 (Jul 1997), 2A1094
Effect of the Coriolis force on thermal convection under microgravity, Theor Comput Fluid Dyn **12**(1) 53-70 (Jul 1998), 2A1097
Use and characteristics of vortical flows near a generating aerodynamic surface: A perspective, Prog Aerospace Sci **34**(3-4) 167-217 (Mar-Apr 1998), 2A1217
Creation of stagnation points in a rotating flow, J Fluids Eng **120**(4) 685-689 (Dec 1998), 3A1049
Flow structure in a Rayleigh-Benard cell upon impulsive spin-up, J Fluids Eng **120**(4) 672-675 (Dec 1998), 3A1050
Nonlinear spin-up of a rotating stratified fluid: Theory, J Fluids Eng **120**(4) 662-666 (Dec 1998), 3A1051
Instability of Taylor vortex and nonaxisymmetric modes in flow between rotating porous cylinders, J Fluids Eng **120**(4) 745-749 (Dec 1998), 3A1055
Interaction of spinning liquid film with swirling gas in cylindrical vessel: Experiments and numerical simulations, J Fluids Eng **120**(4) 690-697 (Dec 1998), 3A1056
Model of mixing and transport in wavy Taylor-Couette flow, Physica D **121**(1-2) 163-174 (Oct 1998), 3A1057
Nonlinear spin-up of a rotating stratified fluid: Experimental method and preliminary results, J Fluids Eng **120**(4) 667-671 (Dec 1998), 3A1058
Shear-induced phase separation in cationic surfactant solutions around a rotating sphere, Rheol Acta **37**(4) 336-344 (Aug 1998), 3A1059
Unsteady MHD flow near a rotating porous disk with uniform suction or injection, Fluid Dyn Res **23**(5) 283-290 (Nov 1998), 3A1060
Particle entrainment in a bounded rotating flow with a drain, J Fluids Eng **120**(4) 676-679 (Dec 1998), 3A1094
Panel method for predicting ship-propeller interaction in potential flow, Ship Tech Res **45**(3) 134-140 (Jul 1998), 3A1176
Turbine performance increases through airfoil clocking, Int J Turbo Jet Engines **15**(2) 119-127 (1998), 3A1200
Stagnation-saddle points and flow patterns in Stokes flow between contra-rotating cylinders, J Fluid Mech **370** 221-247 (Sep 1998), 4A1040
Rotatory oscillations of arbitrary axisymmetric bodies in an axisymmetric viscous flow: Numerical solutions, Phys Fluids **10**(11) 2797-2818 (Nov 1998), 4T1049
Three-dimensional thermal convection caused by spacecraft rotation in a rectangular enclosure with rigid walls, Phys Fluids **10**(10) 2517-2524 (Oct 1998), 4A1052
Experiments on vortex breakdown in a confined flow generated by a rotating disc, J Fluid Mech **370** 73-99 (Sep 1998), 4A1057
Stability of a traveling roll system in a rotating disk flow, Phys Fluids **10**(11) 2695-2697 (Nov 1998), 4T1058
Two-layer flow past a cylinder in a rotating frame, J Fluid Mech **371** 301-318 (Sep 1998), 4A1064
Influence of particle rotation on wake stability at particle Reynolds numbers, $Re_p < 300$: Implications for turbulence modulation in two-phase flows, Int J Multiphase Flow **24**(5) 693-720 (Aug 1998), 4T1111
Vortices and wall shear stresses in asymmetric and symmetric channels with sinusoidal wavy walls for pulsatile flow at low Reynolds numbers, Int J Heat Fluid Flow **19**(6) 583-593 (Dec 1998), 4A1168
Slow translational, rotation or oscillation of a disk in a rotating fluid: Effect of a plane wall or another disk, Quart J Mech Appl Math **51**(4) 495-513 (Nov 1998), 5A945
Numerical and experimental investigation of thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct with rotating inner cylinder, Eur J Mech B **17**(6) 875-900 (Nov-Dec 1998), 5T950
Bi-modal structure imposed on gravity driven boundary currents in rotating systems by effects of the bottom topography, Exp Fluids **25**(5-6) 388-391 (Oct 1998), 5A952
Two-fluid Taylor-Couette flow: Experiments and linear theory for immiscible liquids between corotating cylinders, Phys Fluids **10**(12) 3045-3055 (Dec 1998), 5T956
Analytical solution for laminar viscous flow in the gap between two parallel rotary disks, J Beijing IT 7(2) 113-119 (Jun 1998), 5A958
Radial inflow between a rotating and a stationary disc, Eur J Mech B **17**(6) 791-810 (Nov-Dec 1998), 5T959
Simulation of viscoelastic fluids: Couette-Taylor flow, J Comput Phys **147**(1) 22-59 (Nov 1998), 5A960
Three-dimensional instability of anticyclonic swirling flow in rotating fluid: Laboratory experiments and related theoretical predictions, Phys Fluids **10**(12) 3194-3202 (Dec 1998), 5A961
Turbulent flow around a rotating cylinder in a quiescent fluid, Exp Fluids **25**(5-6) 455-460 (Oct 1998), 5T962
New flow regime in a Taylor-Couette flow, Phys Fluids **10**(12) 3233-3235 (Dec 1998), 5T1063
Possible mechanism of anomalous diffusion by Rossby waves, Phys Fluids **10**(12) 3185-3193 (Dec 1998), 5A1496
MILU-CG method and the numerical study on the flow around a rotating circular cylinder, Appl Math Mech **19**(8) 783-792 (Aug 1998), 6A56
Influence of the geometry on the structure of the flow between a pair of corotating disks, Phys Fluids **11**(1) 88-96 (Jan 1999), 6A1187
Numerical solution of the incompressible Navier-Stokes equations with Coriolis forces based on the discretization of the total time derivative, J Comput Phys **148**(2) 467-496 (Jan 1999), 6A1188
Surface instabilities of thin liquid film flow on a rotating disk, Exp Fluids **26**(1-2) 75-85 (Jan 1999), 6A1268
Coriolis effect on gravity-driven convection in a rotating porous layer heated from below, J Fluid Mech **376** 351-375 (Dec 1998), 6A1467
Nonlinear adjustment of a rotating homogeneous atmosphere to zonal momentum forcing, Tellus **50A**(5) 616-636 (Oct 1998), 6T1522
Inertial particle motion in a Taylor Couette rotating filter, Phys Fluids **11**(2) 325-333 (Feb 1999), 7T972
Numerical study on the vortex motion patterns around a rotating circular cylinder and their critical characters, Int J Numer Methods Fluids **29**(2) 229-248 (Jan 1999), 7A973
Onset of convection in a rotating annulus with radial gravity and heating, Fluid Dyn Res **24**(3) 133-145 (Mar 1999), 7A974
Linear stability of thermally stratified rotating channel flow, Phys Fluids **11**(2) 439-449 (Feb 1999), 7A1080
Evolution of a localized vortex disturbance in external shear flows - Part 2: Comparison with experiments in rotating shear flows, J Fluid Mech **379** 351-380 (Jan 1999), 8A991
Evolution of isolated vortices in a rotating fluid of finite depth, J Fluid Mech **381** 239-269 (Feb 1999), 8A992
Radial displacement of a fluid annulus in a rotating Hele-Shaw cell, Phys Fluids **11**(4) 778-785 (Apr 1999), 8A1001
Investigation of unsteady boundary layer developed on a rotationally oscillating circular cylinder, AIAA J **37**(3) 328-336 (Mar 1999), 8A1006
Stability of oscillatory two-phase Couette flow: Theory and experiment, Phys Fluids **11**(4) 833-844 (Apr 1999), 8A1016
Bubble capture and migration in Couette-Taylor flow, Exp Fluids **26**(3) 233-239 (Feb 1999), 8A1018
Conically similar swirling flows at high Reynolds numbers, Quart J Mech Appl Math **51**(PT1) 1-53 (Feb 1999), 8A1019
Cyclone and anticyclone formation in a rotating stratified fluid over a sloping bottom, J Fluid Mech **381** 199-223 (Feb 1999), 8A1020
Spiral and circular waves in the flow between a rotating and a stationary disk, Exp Fluids **26**(3) 179-187 (Feb 1999), 8A1021
Velocity profile measurement of the Taylor vortex flow of a magnetic fluid using the ultrasonic Doppler method, Exp Fluids **26**(3) 208-214 (Feb 1999), 8A1022
Further results on the stability of rapidly rotating vortices in the asymmetric balance formulation, J Atmos Sci **56**(4) 475-482 (Feb 1999), 8A1166
Magnetohydrodynamic flow in precessing spherical shells, J Fluid Mech **379** 303-318 (Jan 1999), 8A1213
Controlling the secondary flow in a turbine cascade by 3D airfoil design and endwall contouring, J Turbomachinery **121**(2) 191-199 (Apr 1999), 8A1224
Eddy fluxes and topography in stratified quasi-geostrophic methods, J Fluid Mech **380** 59-80 (Feb 1999), 8A1523
Experimental evidence of the sensitiveness of rotor-stator flows with regard to peripheral boundary conditions (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 49-54 (Jan 1999), 9A1127
Structure of steady flows between coaxial disks in rotor-stator configuration (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 221-226 (Feb-Mar 1999), 9A1128
Laboratory technique for generating a rotating, two-layer stratified channel flow, Exp Fluids **26**(5) 404-414 (Apr 1999), 10A1130
Numerical study of the axisymmetric Couette-Taylor problem using a fast high-resolution second-order central scheme, SIAM J Sci Comput **20**(3) 858-877 (Oct 1998), 10T1131
Experiments on a barotropic rotating shear layer - Part I: Instability and steady vortices, J Fluid Mech **383** 143-173 (Mar 1999), 10A1211
Slow manifold for the shallow water equations on the f plane, J Atmos Sci **56**(8) 1050-1054 (Apr 1999), 10T1572
Axisymmetric propagating vortices in the flow between a stationary and a rotating disk enclosed by a cylinder, J Fluid Mech **386** 105-126 (May 1999), 11A1092
Confined vortex breakdown generated by a rotating cone, J Fluid Mech **385** 286-323 (Apr 1999), 11A1093
Simple models of Coriolis-influenced axisymmetric particle-driven gravity currents, Int J Multiphase Flow **25**(4) 715-737 (Jun 1999), 11A1113
Competition of mixing and segregation in rotating cylinders, Phys Fluids **11**(6) 1387-1394 (Jun 1999), 11A1117
Flow of a Shvedov-Bingham fluid between surfaces of revolution with one porous wall, Appl Mech Eng **4**(S) 127-134 (1999), 11T1118
Fully nonlinear 3D convection in a rapidly rotating layer, Phys Fluids **11**(6) 1469-1483 (Jun 1999), 11A1119
Steady boundary-layer solutions for a swirling stratified fluid in a rotating core, J Fluid Mech **384** 339-374 (Apr 1999), 11A1120
Drag and lift forces on a rotating sphere in a linear shear flow, J Fluid Mech **384** 183-206 (Apr 1999), 11A1122
Effect of inlet boundary layer thickness on the flow with an annular S-shaped duct, J Turbomachinery **121**(3) 626-634 (Jul 1999), 11A1206
Fluid flow in a 180° sharp turning duct with different divider thicknesses, J Turbomachinery **121**(3) 569-576 (Jul 1999), 11A1207
Role of tip leakage vortex breakdown in compressor rotor aerodynamics, J Turbomachinery **121**(3) 469-480 (Jul 1999), 11A1314
Implication of a theorem for a class of quasi-geostrophic flows, J Atmos Sci **56**(10) 1424-1426 (May 1999), 11A1582
Numerical prediction of stirred laminar and turbulent air flow in a cylindrical container, Comput Model Simul in Eng **4**(2) 92-98 (May 1999), 12T57
Vortex generation by line plumes in a rotating stratified fluid, J Fluid Mech **388** 289-313 (Jun 1999), 12A1067
Thermal offset in turbulent rotating convection, Phys Fluids **11**(8) 2101-2107 (Aug 1999), 12A1075
Effects of granular additives on transition boundaries between flow states of rimming flows, Phys Fluids **11**(8) 2020-2029 (Aug 1999), 12T1077
Spin-up in a tank induced by a rotating bluff body, J Fluid Mech **388** 49-68 (Jun 1999), 12A1078
Spherical Couette flow of a viscoelastic fluid - Part III: A study of outer sphere rotation, J Non-Newtonian Fluid Mech **84**(1) 45-64 (Jul 1999), 12A1089
Numerical study of an operator splitting method for rotating flows with large ageostrophic initial data, Theor Comput Fluid Dyn **13**(2) 143-159 (Jun 1999), 12A1096

354M. Nonequilibrium and chemical effects

Computations using the preconditioning Bi-CGSTAB algorithm in chemical non-equilibrium problems, Int J Numer Methods Fluids **28**(2) 267-291 (Aug 1998), 1A1110
Family of Eulerian-Lagrangian localized adjoint methods for multi-dimensional advection-reaction equations, J Comput Phys **152**(1) 120-163 (Jun 1999), 11A1121
Local rectangular refinement with application to nonreacting and reacting fluid flow problems, J Comput Phys **151**(2) 684-727 (May 1999), 11T1138

354O. Flow around bodies

Adaptive FE wind analysis with mesh refinement and recovery, Wind Struct **1**(1) 111-125 (Mar 1998), 1A28
Experimental investigation of a parallel vortex-plate interaction, J Fluids Struct **12**(3) 295-314 (Apr 1998), 1A1094
Numerical study of the flow pattern and the in-line response of a flexible cylinder in an oscillating stream, J Fluids Struct **12**(3) 225-258 (Apr 1998), 1A1104
Shear flow around a spinning sphere: Numerical study at moderate Reynolds numbers, Int J Multiphase Flow **24**(4) 563-585 (Jun 1998), 1T1109
Direct boundary integral equations method to Stokes flow past rigid bodies in ground effect, Appl Mech Eng **3**(2) 217-232 (1998), 1A1111
Integral method for 2D Stokes flows past rigid obstacles in the half-plane, Appl Mech Eng **3**(1) 5-24 (1998), 1A1112
Numerical study of wake structure behind a square cylinder at high Reynolds number, Wind Struct **1**(2) 127-144 (Jun 1998), 1A1113
Turbulent flow past an array of bluff bodies aligned along the channel axis, J Fluids Eng **120**(3) 520-530 (Sep 1998), 1A1195
Motion of an intense vortex near topography, J Fluid Mech **367** 359-377 (Jul 1998), 2A1079
Critical evaluation of the classical k-ϵ model and wall-laws for unsteady flows over bluff bodies, Int J Comput Fluid Dyn **10**(1) 1-11 (1998), 2A1095
Experiments on flow around a cylinder; the velocity and vorticity fields, J Hydraul Res **36**(4) 637-653 (1998), 2T1096
Conservative interface algorithm for moving Chimera (overlapped) grids, Int J Comput Fluid Dyn **10**(3) 255-265 (1998), 2T1102
Contribution to the physical analysis of separated flows past 3D humps, Eur J Mech B **17**(3) 307-329 (May-Jun 1998), 2A1160
Nonlinear numerical model predictions of flow over an isolated hill of moderate slope, Boundary-Layer Meteorol **87**(3) 381-408 (Jun 1998), 2A1488
Effect of filter width and numerical viscosity for large-eddy simulation around a square cylinder (Japanese), Proc JSCE **598**(I-44) 227-238 (Jul 1998), 3A1045
Translating and transversely oscillating cylinder - Part 2: Effect of the velocity ratio on the hydrodynamic forces and the near-wake structure, Ocean Eng **26**(1) 21-45 (Jan 1999), 3A1052
Experimental investigation of negative wakes behind spheres settling in a shear-thinning viscoelastic fluid, Rheol Acta **37**(4) 307-327 (Aug 1998), 3A1061
Numerical analysis of 2D wind flow in and around rectangular buildings - Part I: Modeling and simulation, Wind Eng **22**(2) 81-97 (1998), 3T1062
Simulation of vortex shedding past a square cylinder with different turbulence models, Int J Numer Methods Fluids **28**(4) 601-616 (Sep 1998), 3A1063
Influence of the no-slip boundary condition on the prediction of drag, lift, and heat transfer coefficients in the flow past a 2D cylinder, Numer Heat Transfer A **34**(3) 313-330 (Aug 1998), 3A1068

Navier-Stokes analysis of vortex flow over a cropped delta wing, Acta Mech **131**(1-2) 69-87 (1998), 3A1178
Far-wake of a sphere in a stably stratified fluid: Characterization of the vortex structures, Appl Sci Res **59**(2-3) 269-281 (1997), 4A1059
Finite element simulations of incompressible flow past a heated-cooled sphere, Int J Numer Methods Fluids **28**(6) 903-915 (Oct 1998), 4A1060
Lock-on of vortex shedding due to rotational oscillations of a flat plate in a uniform stream, J Fluids Struct **12**(6) 779-798 (Aug 1998), 4A1061
Motion of two spheres falling along their line of centers in a Boger fluid, J Non-Newtonian Fluid Mech **79**(2-3) 191-212 (Nov 1998), 4A1062
Symmetric form of the DNL absorbing boundary condition for the ship wave resistance problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(3) 317-338 (1998), 4A1063
Two-layer flow past a cylinder in a rotating frame, J Fluid Mech **371** 301-318 (Sep 1998), 4A1064
Surface tension force on a partly submerged body, Phys Fluids **10**(11) 3009-3010 (Nov 1998), 4A1070
Motion of inertial spheroidal particles in a shear flow near a solid wall with special application to aerosol transport in microgravity, J Fluid Mech **371** 59-79 (Sep 1998), 4A1114
Numerical analysis of interference galloping of two identical circular cylinders, Wind Struct **1**(3) 243-253 (Sep 1998), 5A242
Ploughing flows, European J Appl Math **9**(5) 463-483 (Oct 1998), 5A954
Aerodynamic characteristics of twin column, high rise bridge towers, Wind Struct **1**(3) 225-241 (Sep 1998), 5A963
Motion of a sphere near planar confining boundaries in a Brinkman medium, J Fluid Mech **375** 265-296 (Nov 1998), 5A964
Three-dimensional numerical simulation of turbulent flow around two high-rise buildings in proximity, Wind Struct **1**(3) 271-284 (Sep 1998), 5A965
Large eddy simulation of the subcritical flow past a circular cylinder: Numerical and modeling aspects, Int J Numer Methods Fluids **28**(9) 1281-1302 (Dec 1998), 5A1088
Bluff-body propulsion produced by combined rotary and translational oscillation, Phys Fluids **11**(1) 4-6 (Jan 1999), 6A1183
Numerical simulation of dynamic stall around an airfoil in Darrieus motion, J Solar Energy Eng **121**(1) 69-76 (Feb 1999), 6A1189
Numerical simulation of the flow around two cylinders in high Reynolds numbers, J Huazhong Univ Sci Tech **26**(9) 45-48 (Sep 1998), 6A1190
Spanwise structure of wall pressure on a cylinder in axial flow, Phys Fluids **11**(1) 151-161 (Jan 1999), 6T1191
Tumbling cards, Phys Fluids **11**(1) 1-3 (Jan 1999), 6A1192
Stability of a stratified viscous shear flow in a titled tube, Phys Fluids **11**(2) 344-355 (Feb 1999), 7A970
Dynamical shape control in non-cylindrical hydrodynamics, Inverse Prob **15**(1) 113-122 (Feb 1999), 7A975
Computations of a laminar backward-facing step flow at Re = 800 with a spectral domain decomposition method, Int J Numer Methods Fluids **29**(4) 411-427 (Feb 1999), 7A979
Little Book of Streamlines (Academic Press, San Diego CA, 1999) 8N25
Numerical analysis of pressure variation under train passage using the BEM, JSME Int J Ser B **41**(3) 624-631 (Aug 1998), 8T56
Planar symmetry in the unsteady wake of a sphere, AIAA J **37**(3) 388-390 (Mar 1999), 8T1007
Finite element analysis of the lift on a slightly deformable and freely rotating and translating cylinder in 2D channel flow, J Biomech Eng **121**(2) 148-152 (Apr 1999), 8A1023
Flow past a sphere up to a Reynolds number of 300, J Fluid Mech **378** 19-70 (Jan 1999), 8A1024
Force measurements and flow visualization of circular and square cylinders in oscillatory flow, JSME Int J Ser B **41**(4) 796-805 (Nov 1998), 8A1025
Observed drag crisis on a sphere in flowing He I and He II, Phys Fluids **11**(4) 751-753 (Apr 1999), 8A1026
Ventilation coefficients for falling ice crystals in the atmosphere at low-intermediate Reynolds numbers, J Atmos Sci **56**(6) 829-836 (Mar 1999), 8T1027
Vortex shedding resonance from a rotationally oscillating cylinder, J Fluids Struct **12**(8) 1041-1053 (Nov 1998), 8A1028
Wind tunnel blockage effects on aerodynamic behavior of bluff body, Wind Struct **1**(4) 351-364 (Dec 1998), 8A1029
Note on phase-locked states at low Reynolds numbers, J Fluids Struct **13**(1) 153-158 (Jan 1999), 8A1139
Domain decomposition approach for incompressible flows past multiple objects, J Fluids Eng **121**(2) 343-350 (Jun 1999), 9A1129
Numerical study of vortex shedding from a circular cylinder in linear shear flow, J Fluids Eng **121**(2) 460-468 (Jun 1999), 9A1130
Computational study of the inertial life on a sphere in a linear shear flow field, Int J Multiphase Flow **25**(1) 15-33 (Feb 1999), 9T1158
Flow past a sphere moving towards a wall in micropolar fluid, J Theor Appl Mech **37**(2) 301-318 (1999), 10T1132
Dynamic character of the hemisphere-cylinder wake, Exp Fluids **26**(5) 415-422 (Apr 1999), 10A1198
Interaction of von Karman vortices and intersecting main streams in staggered tube bundles, Exp Fluids **26**(5) 389-396 (Apr 1999), 10A1201
Uniformly valid analytic solution of 2D viscous flow over a semi-infinite flat plate, J Fluid Mech **385** 101-128 (Apr 1999), 11A1104
Study of 2D flow past an oscillating cylinder, J Fluid Mech **385** 255-286 (Apr 1999), 11A1109
Uniqueness and solvability in the linearized 2D problem of a body in a finite depth subcritical stream, European J Appl Math **10**(2) 141-155 (Apr 1999), 11A1116
Drag and lift forces on a rotating sphere in a linear shear flow, J Fluid Mech **384** 183-206 (Apr 1999), 11A1122
Existence of weak solutions for the motion of rigid bodies in a viscous fluid, Arch Rational Mech Anal **146**(1) 59-71 (1999), 11A1123
Flow through and particle interception by an infinite array of closely-spaced circular cylinders, Eur J Mech B **18**(2) 173-196 (Mar-Apr 1999), 11A1124
Inertial lift on an oscillating sphere in a linear shear flow, Int J Multiphase Flow **25**(4) 739-751 (Jun 1999), 11A1125
Secondary vortex streets in 2D cylinder wakes, Fluid Dyn Res **25**(1) 1-18 (Jul 1999), 11A1126
Stability of the dynamical system "rigid body + inviscid fluid", J Fluid Mech **386** 43-75 (May 1999), 11A1127
Finite element simulation of the motion of a rigid body in a fluid with free surface, Comput Methods Appl Mech Eng **175**(1-2) 99-120 (Jun 1999), 12A99
Characteristics of low-frequency variations embedded in vortex-shedding process, J Fluids Struct **13**(3) 339-359 (Apr 1999), 12T1079
Coupled Korteweg-de Vries equations describing, to high-order, resonant flow of a fluid over topography, Phys Fluids **11**(7) 1797-1804 (Jul 1999), 12A1080
Inviscid nature of the asymmetry of the separating flow of a uniform stream around symmetric bodies, J Appl Math Mech **63**(1) 55-62 (1999), 12A1081
Numerical simulations of a sphere settling through a suspension of neutrally buoyant fibers, J Fluid Mech **388** 355-388 (Jun 1999), 12A1082
Numerical simulation for early development of wake vortices behind a semicircular-section cylinder, J Hydrodyn **11**(2) 84-87 (1999), 12T1169
Numerical simulation of vortex shedding past a circular cylinder under the influence of buoyancy, Int J Heat Mass Transfer **42**(18) 3495-3507 (Sep 1999), 12A1316
Hydrodynamics optimization in butterfly swimming: Position, drag coefficient and performance, J Biomech **32**(8) 803-810 (Aug 1999), 12A1665

354P. Surface tension flow (eg in low gravity environments)

Choking of the flow of piezoviscous liquids, J Fluids Eng **120**(3) 621-625 (Sep 1998), 1A1114
Large-amplitude pulsating fountains, J Fluid Mech **366** 333-350 (Jul 1998), 1A1115
Nonlinear rupture theory of a thin liquid film with insoluble surfactant, J Fluids Eng **120**(3) 598-604 (Sep 1998), 1A1116
Thermocapillary and buoyant bubble motion with variable viscosity, Int J Multiphase Flow **24**(4) 679-683 (Jun 1998), 1T1117
Near-contact motion of surfactant-covered spherical drops, J Fluid Mech **366** 259-287 (Jul 1998), 1A1147
Thermocapillary migration of bubbles at large Reynolds numbers, Int J Multiphase Flow **24**(4) 685-692 (Jun 1998), 1T1151
Stable methods for vortex sheet motion in the presence of surface tension, SIAM J Sci Comput **19**(5) 1737-1766 (Sep 1998), 2A1082
Maragoni-Benard convection with a deformable free surface, J Comput Phys **145**(1) 193-227 (Sep 1998), 2A1091
Effect of the Coriolis force on thermal convection under microgravity, Theor Comput Fluid Dyn **12**(1) 53-70 (Jul 1998), 2A1097
Numerical simulation of superoscillations of a Triton-bearing drop in microgravity, J Fluid Mech **367** 205-220 (Jul 1998), 2A1098
Numerical simulation of unsteady nonisothermal capillary interfaces, J Comput Phys **145**(1) 110-140 (Sep 1998), 2T1099
Thermovibrational convection in a fluid cell, Comput Fluids **27**(8) 923-939 (Nov 1998), 2A1100
Two-dimensional numerical method for the deformation of drops with surface tension, Int J Comput Fluid Dyn **10**(3) 225-240 (1998), 2A1142
Euler limit of the Navier-Stokes equations, and rotating fluids with boundary, Arch Rational Mech Anal **142**(4) 375-394 (1998), 3A1064
Thermoelectrically driven melt motion during floating zone crystal growth with an axial magnetic field, J Fluids Eng **120**(4) 839-843 (Dec 1998), 3A1065
Forced convection during liquid encapsulated crystal growth with an axial magnetic field, J Fluids Eng **120**(4) 844-850 (Dec 1998), 3A1120
Free surface of a high speed capillary jet, Appl Sci Res **59**(1) 77-88 (1997), 3A1131
Benard-Marangoni convection: Planforms and related theoretical predictions, J Fluid Mech **368** 165-194 (Aug 1998), 3A1153
Electrolytes: Properties of Solutions, Methods for Calculation of Multicomponent Systems, and Experimental Data on Thermal Conductivity and Surface Tension (Begell House, New York, 1998) 4N25
Balancing of thermocapillary flow in a floating zone by ripple-driven streaming, Phys Fluids **10**(11) 2765-2780 (Nov 1998), 4T1065
Quasi-steady vortical structures in vertically vibrating soap films, J Fluid Mech **372** 213-230 (Oct 1998), 4A1066
Simulations of 2D and 3D thermocapillary flows by a least-squares FEM, Int J Numer Methods Fluids **28**(6) 983-1007 (Oct 1998), 4A1067
Stress singularity in surfactant-driven thin-film flows - Part 1: Viscous effects, J Fluid Mech **372** 273-300 (Oct 1998), 4A1068
Stress singularity in surfactant-driven thin-film flows - Part 2: Inertial effects, J Fluid Mech **372** 301-322 (Oct 1998), 4A1069
Surface tension force on a partly submerged body, Phys Fluids **10**(11) 3009-3010 (Nov 1998), 4A1070
Marangoni convection in binary mixtures with Soret effect, J Fluid Mech **375** 143-177 (Nov 1998), 5A949
Capillary flow in an interior corner, J Fluid Mech **373** 349-378 (Oct 1998), 5A966
Influence of interface profile on the onset of long-wavelength Marangoni convection, Phys Fluids **10**(12) 3230-3232 (Dec 1998), 5T967
Laser-induced surface-tension-driven flows in liquids, Int J Heat Mass Transfer **42**(1) 85-93 (Jan 1999), 5A968
Surface tension effects in a wedge, Quart J Mech Appl Math **51**(4) 553-561 (Nov 1998), 5A969
Analysis of interface configuration of gas-liquid flow in horizontal tube of small diameter (Chinese), J Tsinghua Univ Sci Tech **38**(7) 1-3 (Jul 1998), 6A1193
Ground-based simulation of flow, heat and mass transfer in microgravity environment (Chinese), J Tsinghua Univ Sci Tech **38**(7) 90-93 (Jul 1998), 6A1194
Numerical investigation of thermocapillary flow around a bubble, Phys Fluids **11**(1) 18-29 (Jan 1999), 6A1235
Two-dimensional similarity solution for capillary driven flows, Physica D **126**(1-2) 136-140 (Feb 1999), 7A976
Contacting and forming singularities: Distinguishing examples, Chaos **9**(1) 164-172 (Mar 1999), 8A1030
Dry arches within flowing films, Phys Fluids **11**(4) 845-852 (Apr 1999), 8A1031
Flow characteristics of gas-liquid two-phase annular flow under microgravity: Experimental results utilizing a drop tower, JSME Int J Ser B **41**(3) 561-567 (Aug 1998), 8T1032
Laplace-Young equation near a corner, Quart J Mech Appl Math **51**(PT1) 73-97 (Feb 1999), 8A1033
Marangoni effects on the motion of an expanding or contracting bubble pinned at a submerged tube tip, J Fluid Mech **379** 279-302 (Jan 1999), 8A1034
Minimal liquid bridges in non-axisymmetrically buckled elastic tubes, J Fluid Mech **380** 309-337 (Feb 1999), 8A1035
Numerical simulation of thermocapillary drop motion with internal circulation, Numer Heat Transfer A **35**(3) 291-309 (Feb 1999), 8A1036
Rear meniscus of a long bubble steadily displacing a Newtonian liquid in a capillary tube, Phys Fluids **11**(4) 786-794 (Apr 1999), 8A1037
Slip boundary condition for the motion of a Newtonian droplet on a solid surface, Z Angew Math Mech **79**(3) 193-203 (1999), 8A1038
Stability of the axisymmetric buoyant-capillary flows in a laterally heated liquid bridge, Phys Fluids **11**(3) 527-541 (Mar 1999), 8A1039
Thermocapillary migration of bubbles and drops at moderate to large Marangoni number and moderate Reynolds number in reduced gravity, Exp Fluids **26**(3) 240-248 (Feb 1999), 8A1040
Structure of Taylor cone-jets: Limit of low flow rates, J Fluid Mech **378** 167-196 (Jan 1999), 8A1217
Thermocapillary convection within short-duration pulse-heated liquid droplets, Numer Heat Transfer A **35**(3) 251-270 (Feb 1999), 8A1304
Radiative heat transfer in silicon floating zone furnace with specular reflection on concave surfaces, JSME Int J Ser B **41**(4) 888-894 (Nov 1998), 8A1335
Capillary effect of viscous fingering in porous media, J Huazhong Univ Sci Tech **26**(SII) 59-61 (Nov 1998), 9A1120
Effects of insoluble surfactants on the nonlinear deformation and breakup of stretching liquid bridges, Phys Fluids **11**(5) 997-1015 (May 1999), 9T1131
Instabilities of dynamic thermocapillary liquid layers with magnetic fields, J Fluid Mech **382** 87-108 (Mar 1999), 9A1132
Effect of surfactant on the stability of a fluid filament embedded in a viscous fluid, J Fluid Mech **382** 331-349 (Mar 1999), 9A1221
Stability of a growing end rim in a liquid sheet of uniform thickness, Phys Fluids **11**(5) 952-954 (May 1999), 9A1223
Quasistationary approximation in the problem of the motion of an isolated volume of a viscous incompressible capillary liquid, J Appl Math Mech **62**(6) 927-937 (1999), 10A1133
Transition from dripping to jetting, J Fluid Mech **383** 307-326 (Mar 1999), 10A1134
Displacement of a 2D immiscible droplet adhering to a wall in shear and pressure-driven flows, J Fluid Mech **383** 29-54 (Mar 1999), 10A1171
Flow regime identification in microgravity two-phase flows using void fraction signals, Int J Multiphase Flow **25**(3) 433-457 (Apr 1999), 10A1178
Cascade of structures in long-wavelength Marangoni instability, Phys Fluids **11**(6) 1484-1494 (Jun 1999), 11A1128
Control of long-wavelength Marangoni-Benard convection, J Fluid Mech **387** 321-341 (May 1999), 11A1129
Draining of a 2D bubble, J Eng Math **35**(3) 251-272 (Apr 1999), 11A1130
Insoluble surfactants on a drop in an extensional flow: A generalization of the stagnated surface limit to deforming interfaces, J Fluid Mech **385** 79-99 (Apr 1999), 11A1131
Deformation of a liquid drop adhering to a plane wall: Significance of the drop viscosity and the effect of an insoluble surfactant, Phys Fluids **11**(6) 1297-1308 (Jun 1999), 11A1177
Development of a bubble rising in a viscous liquid, J Fluid Mech **387** 61-96 (May 1999), 11A1179
Asymptotic analysis of a 3D Bridgman furnace at large Rayleigh number, Phys Fluids **11**(7) 1827-1846 (Jul 1999), 12A1083
Capillary rheometry of micellar aqueous solutions, J Non-Newtonian Fluid Mech **85**(2-3) 229-247 (Aug 1999), 12A1084
Experimental evidence of nonlocal hydrodynamic influence on the dynamic contact angle, Phys Fluids **11**(8) 1995-2007 (Aug 1999), 12T1085
Kinetic instabilities of three-layer thermocapillary creeping flows, Phys Fluids **11**(8) 2139-2142 (Aug 1999), 12T1086
Spontaneous thermocapillary interaction of drops, bubbles, and particles: Unsteady convective effects at low Peclet numbers, Phys Fluids **11**(7) 1768-1780 (Jul 1999), 12A1087

354R. Non-Newtonian flow

Analytical solution to flux enhancement in laminar concentrically stratified pipe flow of Bingham and Newtonian fluids, J Fluids Eng **120**(3) 629-631 (Sep 1998), 1A1118
Extensional deformation of non-Newtonian liquid bridges, Comput Mech **21**(6) 461-476 (Jun 1998), 1A1119
Unsteady, laminar viscoelastic flows through rectangular ducts, Appl Mech Eng **2**(3) 303-318 (1997), 1A1120
Response surface analysis of average residence times in a co-rotating twin screw extruder, J Mat Processing Manuf Sci **6**(1) 19-26 (Jul 1997), 2A1094
Gas-assisted injection modeling of long glass fiber reinforced thermoplastics, J Mat Processing Manuf Sci **6**(1) 63-70 (Jul 1997), 2A1101
Fluid inertia in large amplitude oscillatory shear, Rheol Acta **37**(4) 365-373 (Aug 1998), 3A1014
Shear-induced mixing and demixing in poly(styrene-co-maleic anhydride)-poly(methyl methacrylate) blends, J Rheol **42**(5) 1227-1247 (Sep-Oct 1998), 3A1015
Experimental investigation of negative wakes behind spheres settling in a shear-thinning viscoelastic fluid, Rheol Acta **37**(4) 307-327 (Aug 1998), 3A1061
Bubble dynamics in a compressible shear-thinning liquid, Fluid Dyn Res **23**(5) 291-318 (Nov 1998), 3A1100
Delayed-die swell and sedimentation of elongated particles in wormlike micellar solutions, J Non-Newtonian Fluid Mech **79**(2-3) 157-171 (Nov 1998), 4A528
Axisymmetric entry flow of semi-dilute xanthan gum solutions: Prediction and experiment, J Non-Newtonian Fluid Mech **79**(2-3) 105-136 (Nov 1998), 4T985
Motion of two spheres falling along their line of centers in a Boger fluid, J Non-Newtonian Fluid Mech **79**(2-3) 191-212 (Nov 1998), 4A1062
Periodic unsteady flows of a non-Newtonian fluid, Acta Mech **131**(3-4) 169-175 (1998), 4A1071
Wall slip of a polydimethylsiloxane extruded through a slit die with rough steel surfaces: Micrometric measurement at the wall with fluorescent-labeled

chains, J Rheol **42**(6) 1389-1402 (Nov-Dec 1998), 5A896
Numerical and experimental investigation of thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct with rotating inner cylinder, Eur J Mech B **17**(6) 875-900 (Nov-Dec 1998), 5T950
Simulation of viscoelastic fluids: Couette-Taylor flow, J Comput Phys **147**(1) 22-59 (Nov 1998), 5A960
Motion of a sphere near planar confining boundaries in a Brinkman medium, J Fluid Mech **375** 265-296 (Nov 1998), 5A964
Kacanov method for a quasi-Newtonian flow problem, Numer Functional Anal Optimization **19**(9-10) 961-970 (1998), 5A970
Structure of the spectrum in zero Reynolds number shear flow of the UCM and Oldroyd-B liquids, J Non-Newtonian Fluid Mech **80**(2-3) 251-268 (Jan 1999), 5A1050
Analytical solutions for squeeze flow with partial wall slip, J Non-Newtonian Fluid Mech **81**(1-2) 1-15 (Feb 1999), 6A1195
Equivalence transformations applied to exterior calculus approach for finding symmetries: An example of non-Newtonian fluid flow, Int J Eng Sci **37**(1) 25-32 (Jan 1999), 6A1196
Non-swirling axisymmetric flow of the ω-D fluid, Rheol Acta **37**(6) 566-572 (Dec 1998), 6A1197
One dimensional simplification in modeling some basic polymer processing operations - I: Extrudate swell and fiber melt spinning, Rheol Acta **37**(6) 601-613 (Dec 1998), 6A1198
Three-dimensional viscoelastic numerical analysis of the encapsulation phenomena in coextrusion, Rheol Acta **37**(6) 624-634 (Dec 1998), 6A1199
Variational principles in hydrodynamics of a non-Newtonian fluid, Appl Math Mech **19**(10) 963-969 (Oct 1998), 6A1200
Shear-driven diffusion in suspensions studied via 1D dynamic NMR projection, Fluid Dyn Res **24**(3) 121-132 (Mar 1999), 7A942
Time-dependent plane Poiseuille flow of a Johnson-Segalman fluid, J Non-Newtonian Fluid Mech **82**(1) 105-123 (Apr 1999), 7A967
Particle arrestance modeling within fibrous porous media, J Fluids Eng **121**(1) 155-162 (Mar 1999), 7A977
Secondary flows due to axial shearing of a third grade fluid between two eccentrically placed cylinders, Int J Eng Sci **37**(4) 411-429 (Mar 1999), 7A978
Stability of plane Couette flow of a granular material, J Fluid Mech **377** 99-136 (Dec 1998), 7A1077
Rear meniscus of a long bubble steadily displacing a Newtonian liquid in a capillary tube, Phys Fluids **11**(4) 786-794 (Apr 1999), 8A1037
Area tensors for modeling microstructure during laminar liquid-liquid mixing, Int J Multiphase Flow **25**(1) 35-61 (Feb 1999), 9T1133
Blade coating of a power-law fluid, Phys Fluids **11**(5) 958-970 (May 1999), 9T1134
Near-equilibrium dynamics of Dio models for liquid crystal polymer flows: Catastrophic and regularized behavior, J Non-Newtonian Fluid Mech **83**(1-2) 131-150 (Jun 1999), 10A1091
Transient mixed convection of a second-grade fluid past a backward-facing step, Int J Non-Linear Mech **34**(5) 881-893 (Sep 1999), 10A1097
Modified hybrid closure approximation for prediction of flow-induced fiber orientation, J Rheol **43**(3) 569-589 (May-Jun 1999), 10A1135
Periodic flows of a non-Newtonian fluid between two parallel plates, Int J Non-Linear Mech **34**(5) 895-899 (Sep 1999), 10A1136
Heat transfer behavior of a temperature-dependent non-Newtonian fluid with Reiner-Rivlin model in a 2:1 rectangular duct, Int J Heat Mass Transfer **42**(15) 2935-2942 (Aug 1999), 10A1318
Momentum and heat transfer in a power-law fluid with arbitrary injection-suction at a moving wall, Int J Heat Mass Transfer **42**(15) 2837-2847 (Aug 1999), 10A1319
Flow of Bingham media: Applications in food technology, Appl Mech Eng **4**(S) 413-415 (1999), 11T1132
Interactions between pairs of oblique waves in a Bickley jet, Eur J Mech B **18**(2) 227-243 (Mar-Apr 1999), 11T1133
Non-Newtonian flow through straight pipes of elliptic cross section, Appl Mech Eng **4**(S) 227-230 (1999), 11T1134
Numerical procedure for the computation of fluid flow with arbitrary stress-strain relationships, Numer Heat Transfer B **35**(3) 295-315 (Apr-May 1999), 11A1141
Characteristics of laminar viscous shear-thinning fluid flows in eccentric annular channels, J Non-Newtonian Fluid Mech **84**(1) 1-17 (Jul 1999), 12A1068
Numerical simulations of a sphere settling through a suspension of neutrally buoyant fibers, J Fluid Mech **388** 355-388 (Jun 1999), 12A1082
Capillary rheometry of micellar aqueous solutions, J Non-Newtonian Fluid Mech **85**(2-3) 229-247 (Aug 1999), 12A1084
Lamb's slip hypothesis: Revisited for torsional and cone-plate flow, Z Angew Math Mech **79**(7) 485-491 (1999), 12A1088
Spherical Couette flow of a viscoelastic fluid - Part III: A study of outer sphere rotation, J Non-Newtonian Fluid Mech **84**(1) 45-64 (Jul 1999), 12A1089
Three-dimensional resin transfer molding: Isothermal process modeling and implicit tracking of moving fronts for thick, geometrically complex composites manufacturing applications - Part 2, Numer Heat Transfer A **35**(8) 839-858 (Jun 1999), 12A1090
Three-dimensional resin transfer molding: Isothermal process modeling and explicit tracking of moving fronts for thick geometrically complex composites manufacturing applications - Part 1, Numer Heat Transfer A **35**(8) 815-838 (Jun 1999), 12A1098
Effect of wall slip on the stability of viscoelastic plane shear flow, Phys Fluids **11**(7) 1749-1756 (Jul 1999), 12T1176

354Y. Computational techniques

Adaptive FE wind analysis with mesh refinement and recovery, Wind Struct **1**(1) 111-125 (Mar 1998), 1A28
Free surface flow over curved surfaces - Part I: Perturbation analysis, Int J Numer Methods Fluids **28**(2) 191-200 (Aug 1998), 1A30
Modeling of pipeline integrity taking into account the fluid-structure interaction, Int J Numer Methods Fluids **28**(2) 337-355 (Aug 1998), 1A1083
Free-surface flow over curved surfaces - Part II: Computational model, Int J Numer Methods Fluids **28**(2) 201-213 (Aug 1998), 1A1105
Shear flow around a spinning sphere: Numerical study at moderate Reynolds numbers, Int J Multiphase Flow **24**(4) 563-585 (Jun 1998), 1T1109
Computations using the preconditioning Bi-CGSTAB algorithm in chemical non-equilibrium problems, Int J Numer Methods Fluids **28**(2) 267-291 (Aug 1998), 1A1110
Numerical study of wake structure behind a square cylinder at high Reynolds number, Wind Struct **1**(2) 127-144 (Jun 1998), 1A1113
Core spreading vortex methods in 2D viscous flows, Comput Methods Appl Mech Eng **160**(3-4) 273-298 (Jul 1998), 1A1121
Monotone time relaxation matrix procedure for improved convergence to steady-state for CFD algorithms, Comput Methods Appl Mech Eng **160**(3-4) 359-382 (Jul 1998), 1A1122
A posteriori error estimation of steady-state FE solutions of the Navier-Stokes equations by a subdomain residual method, Comput Methods Appl Mech Eng **159**(1-2) 19-48 (Jul 1998), 1A1123
Preconditioned iterative methods for coupled discretizations of fluid flow problems, IMA J Numer Anal **18**(3) 385-397 (Jul 1998), 1A1124
Solution of flow problems using unstructured grids on distributed memory platforms, Comput Methods Appl Mech Eng **160**(1-2) 89-100 (Jul 1998), 1A1125
Volume-tracking method for incompressible multifluid flows with large density variations, Int J Numer Methods Fluids **28**(2) 357-378 (Aug 1998), 1A1126
Velocity-vorticity formulation of the 2D Stokes system and its FE approximation, Int J Comput Fluid Dyn **10**(1) 27-43 (1998), 2T49
Computing flows on general 2D nonsmooth staggered grids, J Eng Math **34**(1-2) 21-44 (Jul 1998), 2A74
Low-diffusion flux-splitting methods for flows at all speeds, AIAA J **36**(9) 1610-1617 (Sep 1998), 2A75
Numerical simulation of a thermoacoustic refrigerator - Part II: Stratified flow around the stack, J Comput Phys **144**(2) 299-324 (Aug 1998), 2A77
Spectro-consistent discretization of Navier-Stokes: A challenge to RANS and LES, J Eng Math **34**(1-2) 163-179 (Jul 1998), 2A78
Multigrid strategies for viscous flow solvers on anisotropic unstructured meshes, J Comput Phys **145**(1) 141-165 (Sep 1998), 2T1083
Spectral method for the flow between two concentric rotating spheres (Chinese), Chinese J Comput Mech **15**(3) 253-262 (Aug 1998), 2T1085
Mixed spectral-wavelet method for the solution of the Stokes problem, J Comput Phys **145**(1) 297-315 (Sep 1998), 2T1088
Maragoni-Benard convection with a deformable free surface, J Comput Phys **145**(1) 193-227 (Sep 1998), 2A1091
Adaptive grid Eulerian method for the computation of free surface flows, Int J Comput Fluid Dyn **10**(3) 213-224 (1998), 2T1092
Numerical simulation of unsteady nonisothermal capillary interfaces, J Comput Phys **145**(1) 110-140 (Sep 1998), 2T1099
Thermovibrational convection in a fluid cell, Comput Fluids **27**(8) 923-939 (Nov 1998), 2A1100
Conservative interface algorithm for moving Chimera (overlapped) grids, Int J Comput Fluid Dyn **10**(3) 255-265 (1998), 2T1102
Coupling of boundary integral and FEMs for the nonstationary exterior flow, Numer Methods PDE **14**(5) 549-565 (Sep 1998), 2A1103
Dynamic adaption algorithm for grid, time and satellite processors for nodal FE formulations of Navier-Stokes equations, Comput Methods Appl Mech Eng **161**(3-4) 215-228 (Aug 1998), 2A1104
Fast Poisson solver for the finite difference solution of the incompressible Navier-Stokes equations, SIAM J Sci Comput **19**(5) 1606-1624 (Sep 1998), 2T1105
Fundamental solution method for incompressible Navier-Stokes equations, Int J Numer Methods Fluids **28**(3) 565-568 (Sep 1998), 2A1106
Improved projection scheme applied to pseudospectral methods for the incompressible Navier-Stokes equations, Int J Numer Methods Fluids **28**(3) 501-521 (Sep 1998), 2A1107
Momentum coupling method for the unsteady incompressible Navier-Stokes equations on the staggered grid, Int J Numer Methods Fluids **28**(3) 443-460 (Sep 1998), 2A1108
New parallel solver for the nonperiodic incompressible Navier-Stokes equations with a Fourier method: Application to frontal polymerization, J Comput Phys **145**(1) 316-331 (Sep 1998), 2T1109
Pressure boundary conditions for the vorticity-velocity formulation of Navier-Stokes equations (16), Eng Anal Boundary Elements **22**(1) 33-40 (361 1998), 2A1110
Two-dimensional incompressible Navier-Stokes calculations in complex-shaped moving domains, J Eng Math **34**(1-2) 57-73 (Jul 1998), 2A1111
Pressure-based compressible calculation method utilizing total variation diminishing schemes, AIAA J **36**(9) 1652-1657 (Sep 1998), 2A1131
Two-dimensional numerical method for the deformation of drops with surface tension, Int J Comput Fluid Dyn **10**(3) 225-240 (1998), 2A1142
Improved method for parameter selection in FE model updating, Aeronaut J **102**(1016) 321-329 (Jun-Jul 1998), 2A1224
Approximation of the unsteady Navier-Stokes equations by FE projection methods, Numer Math **80**(2) 207-238 (Aug 1998), 3A43
Error indicators for the Navier-Stokes equations in stream function and vorticity formulation, Numer Math **80**(2) 181-206 (Aug 1998), 3A44
Effect of filter width and numerical viscosity for large-eddy simulation around a square cylinder (Japanese), Proc JSCE **598**(I-44) 227-238 (Jul 1998), 3A1045
Local mesh adaptation technique for front tracking problems, Int J Numer Methods Fluids **28**(4) 719-736 (Sep 1998), 3A1046
Third-order Taylor-Galerkin model for the simulation of 2D unsteady free surface flows, Appl Math Model **22**(9) 641-656 (Sep 1998), 3A1054
Simulation of vortex shedding past a square cylinder with different turbulence models, Int J Numer Methods Fluids **28**(4) 601-616 (Sep 1998), 3A1063
Accuracy and performance of numerical wall boundary conditions for steady, 2D, incompressible streamfunction vorticity, Int J Numer Methods Fluids **28**(4) 737-757 (Sep 1998), 3A1066
Implicit weighted ENO schemes for the 3D incompressible Navier-Stokes equations, J Comput Phys **146**(1) 464-487 (Oct 1998), 3T1067
Influence of the no-slip boundary condition on the prediction of drag, lift, and heat transfer coefficients in the flow past a 2D cylinder, Numer Heat Transfer A **34**(3) 313-330 (Aug 1998), 3A1068
Nonlinear multigrid method for the 3D incompressible Navier-Stokes equations, J Comput Phys **146**(1) 301-321 (Oct 1998), 3T1069
A posteriori L^2-error estimates for the nonconforming P_1/P_0-FE discretization of the Stokes equations, J Comput Appl Math **96**(2) 99-116 (Sep 1998), 3A1070
Study of the backward-facing step problem using a generalized streamline formulation, Commun Numer Methods Eng **14**(8) 697-708 (Aug 1998), 3A1071
Two-level method with backtracking for the Navier-Stokes equations, SIAM J Numer Anal **35**(5) 2035-2054 (Oct 1998), 3A1072
Vortex method for 2D Euler equations in bounded domains with boundary correction, Math Comput **67**(224) 1383-1400 (Oct 1998), 3A1073
Efficient very-high-resolution scheme based on an adaptive-scheme strategy, Numer Heat Transfer B **34**(2) 191-213 (Sep 1998), 3A1262
Multilevel solution-adaptive differencing strategies for convective flows, Numer Heat Transfer A **34**(3) 279-299 (Aug 1998), 3A1263
New family of adaptive very high resolution schemes, Numer Heat Transfer B **34**(2) 215-239 (Sep 1998), 3A1264
Preconditioning techniques for the BiCGSTAB algorithm used in convection-diffusion problems, Numer Heat Transfer B **34**(2) 241-256 (Sep 1998), 3A1266
Parallel DNS with local grid refinement, Appl Sci Res **59**(4) 379-394 (1997), 4A50
Three-dimensional hydrodynamic model in curvilinear coordinates with collocated grid, Int J Numer Methods Fluids **28**(7) 1109-1134 (Nov 1998), 4A255
Disk-driven vortical flow structure in a cubical container, Comput Fluids **28**(1) 41-61 (Jan 1999), 4A1027
Gravity-driven creeping flow of two adjacent layers through a channel and down a plane wall, J Fluid Mech **371** 345-376 (Sep 1998), 4A1038
Higher-order unstructured domain decomposition method for Navier-Stokes equations, Comput Fluids **28**(1) 87-120 (Jan 1999), 4A1039
Improved laminar predictions using a stabilized time-dependent simple scheme, Int J Numer Methods Fluids **28**(5) 841-857 (Oct 1998), 4A1048
Spectral method for free surface flows of inviscid fluids, Int J Numer Methods Fluids **28**(6) 887-902 (Oct 1998), 4A1055
Finite element simulations of incompressible flow past a heated-cooled sphere, Int J Numer Methods Fluids **28**(6) 903-915 (Oct 1998), 4A1060
Completeness of meshfree particle methods, Int J Numer Methods Eng **43**(5) 785-819 (Nov 1998), 4A1072
Contemporary applications of computational fluid dynamics, Appl Math Model **22**(10) 747-840 (Oct 1998), 4T1073
Filtering non-solenoidal modes in numerical solutions of incompressible flows, Int J Numer Methods Fluids **28**(5) 789-814 (Oct 1998), 4A1074
Fourier-Chebyshev pseudospectral method for 3D vorticity equation, J Comput Math **16**(5) 417-436 (Sep 1998), 4A1075
Numerical integration of multi-dimensional, initial boundary value problems for the Euler equations in quasi-linear form, Numer Methods PDE **14**(6) 781-814 (Nov 1998), 4A1076
Overlapping Schwarz methods for mixed linear elasticity and Stokes problems, Comput Methods Appl Mech Eng **165**(1-4) 233-245 (Nov 1998), 4A1077
Parallel computation and analysis of the flow in a static mixer, Comput Fluids **28**(1) 1-18 (Jan 1999), 4A1078
Role of bulk viscosity in stabilized FE formulations for incompressible flow: A review, Comput Methods Appl Mech Eng **163**(1-4) 1-10 (Sep 1998), 4A1079
Symmetry techniques for the numerical solution of the 2D Euler equations at impermeable boundaries, Int J Numer Methods Fluids **28**(7) 1093-1108 (Nov 1998), 4A1080
Three-dimensional incompressible Navier-Stokes equations on non-orthogonal staggered grids using the velocity-vorticity formulation, Int J Numer Methods Fluids **28**(6) 917-943 (Oct 1998), 4A1081
Torsional springs for 2D dynamic unstructured fluid meshes, Comput Methods Appl Mech Eng **163**(1-4) 231-245 (Sep 1998), 4A1082
Numerical study of the flow behavior in the uniform velocity entry flow problem, Numer Heat Transfer A **34**(5) 479-494 (Oct 1998), 4A1171
Spectral domain decomposition technique for the incompressible Navier-Stokes equations, Numer Heat Transfer A **34**(5) 495-518 (Oct 1998), 4A1331
Quasi-2D method for the rotordynamic analysis of centered labyrinth liquid seals, J Eng Gas Turbines Power **121**(1) 144-152 (Jan 1999), 5A857
Two-dimensional and three-dimensional numerical simulations of the transition to oscillatory convection in low-Prandtl-number fluids, J Fluid Mech **374** 145-171 (Nov 1998), 5A951
Effective boundary conditions for laminar flows over periodic rough boundaries, J Comput Phys **147**(1) 187-218 (Nov 1998), 5A971
Experience in integrating CFD to the technology of testing models in wind tunnels, Prog Aerospace Sci **34**(7-8) 391-422 (Nov-Dec 1998), 5A972
Fractional-step method for the incompressible Navier-Stokes equations related to a predictur-multicorrector algorithm, Int J Numer Methods Fluids **28**(10) 1391-1419 (Dec 1998), 5A973
Pressure boundary conditions for a segregated approach to solving incompressible Navier-Stokes equations, Numer Heat Transfer B **34**(4) 457-467 (Dec 1998), 5A974
Stabilized spectral methods for the Navier-Stokes equations: Residual-free bubbles and preconditioning, Comput Methods Appl Mech Eng **166**(1-2) 65-83 (Nov 1998), 5A975
Stabilized vs stable mixed methods for incompressible flow, Comput Methods Appl Mech Eng **166**(1-2) 131-141 (Nov 1998), 5A976
Comparison between prescriptive and performance-based criteria for assessing Ro-Ro damage survivability, Int Shipbuild Prog **45**(444) 351-382 (Dec 1998), 5A1105
Staggered-grid panel method for hydrofoils with fully nonlinear free-surface effect, Int Shipbuild Prog **45**(444) 313-329 (Dec 1998), 5A1107
Benchmark solution for unsteady state CFD problems, Numer Heat Transfer A **34**(6) 653-672 (Nov 1998), 5A1228
Study on convergence criteria for simple-based finite-volume algorithm, Numer Heat Transfer B **34**(4) 401-417 (Dec 1998), 5A1231
Modeling arteriolar flow and mass transport using the immersed boundary methods, J Comput Phys **147**(2) 402-440 (Dec 1998), 5T1362
Error analysis of a weighted least-squares FEM for 2D incompressible flows in velocity-stress-pressure

formulation, Math Methods Appl Sci **21**(18) 1637-1654 (Dec 1998), 6A29
Vectorized directional sweep based parallelization method for factored alternating direction implicit schemes, Int J Comput Fluid Dyn **10**(4) 291-299 (1998), 6A87
Solution of incompressible flows with or without a free surface using the finite volume method on unstructured triangular meshes, Int J Numer Methods Fluids **29**(1) 35-57 (Jan 1999), 6A1185
Stable and conservative interface treatment of arbitrary spatial accuracy, J Comput Phys **148**(2) 341-365 (Jan 1999), 6A1186
Numerical solution of the incompressible Navier-Stokes equations with Coriolis forces based on the discretization of the total time derivative, J Comput Phys **148**(2) 467-496 (Jan 1999), 6A1188
Numerical simulation of the flow around two cylinders in high Reynolds numbers, J Huazhong Univ Sci Tech **26**(9) 45-48 (Sep 1998), 6A1190
Boundary and interface conditions for high-order finite-difference methods applied to the Euler and Navier-Stokes equations, J Comput Phys **148**(2) 621-645 (Jan 1999), 6T1201
Fast construction of extension velocities in level set methods, J Comput Phys **148**(1) 2-22 (Jan 1999), 6T1202
Hopf bifurcations of reaction-diffusion and Navier-Stokes equations under discretization, Numer Math **81**(1) 53-84 (Nov 1998), 6A1203
Numerical method for solving incompressible flow problems with a surface of discontinuity, J Comput Phys **148**(2) 366-396 (Jan 1999), 6T1204
Regularity and stability for the solutions of the Navier-Stokes equations in Lorentz spaces, Nonlinear Anal **35**(6) 747-764 (Mar 1999), 6T1205
Setting a pressure datum when computing incompressible flows, Int J Numer Methods Fluids **29**(1) 19-34 (Jan 1999), 6A1206
Staggered grids hybrid-dual spectral element method for second-order elliptic problems: Application to high-order time splitting methods for Navier-Stokes equations, Comput Methods Appl Mech Eng **166**(3-4) 183-199 (Nov 1998), 6A1207
Two step implicit algorithm for solving the time-dependent incompressible Navier-Stokes and advective-diffusive equations (Japanese), Proc JSCE **605**(I-45) 129-142 (Oct 1998), 6A1208
Adaptive level set approach for incompressible two-phase flows, J Comput Phys **148**(1) 81-124 (Jan 1999), 6A1242
Nuclear Engineering Division - 1998 (ASME, New York, 1998) 7N27
Modified formula for the flow velocity profile in a vortex, J Fluids Eng **121**(1) 208-210 (Mar 1999), 7A957
Review of vorticity conditions in the numerical solution of the ζ-ψ equations, Comput Fluids **28**(2) 139-185 (Feb 1999), 7A964
Direct numerical simulation of free-surface and interfacial flow, Annu Rev Fluid Mech **31** 567-603 (1999), 7T968
Computations of a laminar backward-facing step flow at Re = 800 with a spectral domain decomposition method, Int J Numer Methods Fluids **29**(4) 411-427 (Feb 1999), 7A979
Convergence of Chorin-Marsden formula for the Navier-Stokes equations on convex domains, J Comput Math **17**(1) 73-88 (Jan 1999), 7A980
Domain decomposition method for Navier-Stokes equation: application and numerical simulation (Chinese), Chinese J Comput Mech **16**(1) 18-23 (Feb 1999), 7T981
Filtering techniques for complex geometry fluid flows, Commun Numer Methods Eng **15**(1) 9-18 (Jan 1999), 7A982
Implicit and multigrid procedures for steady-state computations with upwind algorithms, Comput Fluids **28**(2) 187-212 (Feb 1999), 7A983
Improved technique for solving 2D shallow water problems, Int J Numer Methods Fluids **29**(4) 465-483 (Feb 1999), 7A984
Integral equation approach to the incompressible Navier-Stokes equations in 2D, SIAM J Sci Comput **20**(1) 318-336 (Aug 1998), 7T985
Operator splitting numerical scheme for thermal-isothermal incompressible viscous flows, Int J Numer Methods Fluids **29**(4) 397-410 (Feb 1999), 7A986
Penalty method for the vorticity-velocity formulation, J Comput Phys **149**(1) 32-58 (Feb 1999), 7A987
Preconditioning techniques in computational fluid dynamics, Annu Rev Fluid Mech **31** 385-416 (1999), 7A988
Comparative study of conservative and nonconservative interpolation schemes for the domain decomposition method on laminar incompressible flows, Numer Heat Transfer B **35**(1) 65-84 (Jan-Feb 1998), 7A1278
Four-point interpolation schemes for convective fluxes approximation, Numer Heat Transfer B **35**(1) 23-39 (Jan-Feb 1998), 7A1279
Intermediate Finite Element Method: Fluid Flow and Heat Transfer Applications (Taylor & Francis, Philadelphia, PA, 1999) 8R2
Advances in Fluid Mechanics II (Comput Mech, UK, 1998) 8N21
Integral Transform Method in Thermal and Fluids Sciences and Engineering (Begell House, New York, 1998) 8R27
High-order finite-difference method for incompressible flows using collocated grid system, JSME Int J Ser B **41**(4) 830-839 (Nov 1998), 8T44
Tendency to form non-differentiable vorticity interfaces in Euler flows, Fluid Dyn Res **24**(4) 185-188 (Apr 1999), 8A996
Numerical analysis of the deformation of an adherent drop under shear flow, J Biomech Eng **121**(2) 160-169 (Apr 1999), 8A999
Numerical simulation of viscous flow: Buckling of planar jets, Int J Numer Methods Fluids **29**(6) 705-718 (Mar 1999), 8A1000
Numerical simulation of the Rayleigh-Benard convection of air in a box of a large aspect ratio, Phys Fluids **11**(3) 743-745 (Mar 1999), 8T1011
Flow past a sphere up to a Reynolds number of 300, J Fluid Mech **378** 19-70 (Jan 1999), 8A1024
Additive turbulent decomposition for the 2D incompressible Navier-Stokes equations: Convergence theorems and error estimates, SIAM J Appl Math **59**(1) 139-155 (Sep 1998), 8A1041
Analysis of a mold filling using an implicit SOLA-VOF, Numer Heat Transfer A **35**(3) 331-342 (Feb 1999), 8A1042
Computing flows on general 3D nonsmooth staggered grids, J Comput Phys **149**(2) 333-362 (Mar 1999), 8T1043
Formulations of Navier-Stokes equations for moving grid and boundary, J Propulsion Power **15**(2) 360-362 (Mar-Apr 1999), 8A1044
Moving-least-squares-particle hydrodynamics - I: Consistency and stability, Int J Numer Methods Eng **44**(8) 1115-1155 (Mar 1999), 8A1045
Multiblock approach for calculating incompressible fluid flows on unstructured grids, AIAA J **37**(2) 169-176 (Feb 1999), 8A1046
Negative norm least-squares methods for the velocity-vorticity-pressure Navier-Stokes equations, Numer Methods PDE **15**(2) 237-256 (Mar 1999), 8A1047
Numerical stability conditions in the calculation of potential velocity fields, AIAA J **37**(2) 272-276 (Feb 1999), 8T1048
Penalization method to take into account obstacles in incompressible viscous flows, Numer Math **81**(4) 497-520 (Feb 1999), 8A1049
Projection method for low speed flows, J Comput Phys **149**(2) 245-269 (Mar 1999), 8T1050
Two grid discretizations with backtracking of the stream function form of the Navier-Stokes equations, Appl Math Comput **100**(2-3) 131-138 (May 1999), 8A1051
Unconditionally stable method for the Euler equations, J Comput Phys **150**(1) 76-96 (Mar 1999), 8T1052
Convergence acceleration of segregated algorithms using dynamic tuning additive correction multigrid strategy, Int J Numer Methods Fluids **29**(5) 515-533 (Mar 1999), 8A1207
Investigation of periodic boundary conditions in multipassage cascade flows using overset grids, J Turbomachinery **121**(2) 341-347 (Apr 1999), 8A1251
Nonlinear numerical simulator for 3D flows through vibrating blade rows, J Turbomachinery **121**(2) 349-357 (Apr 1999), 8A1252
Computational Conformal Mapping (Birkhauser Boston, MA, 1998) 9N35
Domain decomposition approach for incompressible flows past multiple objects, J Fluids Eng **121**(2) 343-350 (Jun 1999), 9A1129
Numerical study of vortex shedding from a circular cylinder in linear shear flow, J Fluids Eng **121**(2) 460-468 (Jun 1999), 9A1130
Alternative Galerkin formulation for streamline problems, Commun Numer Methods Eng **15**(3) 219-225 (Mar 1999), 9A1135
CFD investigation into the effects of current incidence on the hydrodynamic loading on a deepwater TLP, J Offshore Mech Arctic Eng **121**(2) 109-115 (May 1999), 9A1136
Computer visualization of vortex wake systems, AIAA J **37**(4) 511-512 (Apr 1999), 9T1137
Hydrodynamic stability of the plane Poiseuille flow of an electrorheological fluid, Int J Non-Linear Mech **34**(4) 589-602 (Jul 1999), 9A1251
Investigation of unsteady flow in a model of a ventricular assist device by numerical modeling and comparison with experiment, Med Eng Phys **21**(1) 53-64 (Jan 1999), 9A1587
Stability of full discrete Fourier nonlinear Galerkin algorithm (Chinese), J Xi'an Jiaotong Univ **33**(4) 94-97 (1999), 10A83
Effect of a sawtooth boundary on Couette flow, Comput Fluids **28**(6) 801-813 (Jul 1999), 10A1120
Implicit time integration of semi-discrete viscous fluxes on unstructured dynamic meshes, Int J Numer Methods Fluids **29**(8) 975-996 (Apr 1999), 10A1126
Numerical study of the axisymmetric Couette-Taylor problem using a fast high-resolution second-order central scheme, SIAM J Sci Comput **20**(3) 858-877 (Oct 1998), 10T1131
Advances in parallel computing methods for fluid mechanics, Comput Mech **23**(2) 98-217 (Masr 1999), 10A1137
Conical and cylindrical axisymmetrical flow under influence of non potential body forces and dissipation effects, Trans Inst Fluid-Flow Machinery **0**(104) 59-71 (1998), 10A1138
Generalized streamline FE approach for the analysis of incompressible flow problems including moving surfaces, Comput Methods Appl Mech Eng **173**(1-2) 241-255 (Apr 1999), 10A1139
Multigrid solutions of the Euler and Navier-Stokes equations on unstructured grids, Int J Numer Methods Fluids **29**(8) 921-934 (Apr 1999), 10A1140
Numerical solution of 3D stream function vector components of vorticity transport equations, Comput Methods Appl Mech Eng **170**(1-2) 131-153 (Feb 1999), 10A1141
Second-order time-accurate and geometrically conservative implicit schemes for flow computations on unstructured dynamic meshes, Comput Methods Appl Mech Eng **170**(1-2) 103-129 (Feb 1999), 10A1142
Tenth international congress on numerical methods in laminar and turbulent flow, Int J Numer Methods Fluids **29**(7) 737-895 (Apr 1999), 10A1143
Inviscid and viscous simulations of spoiler performance, Aeronaut J **102**(1017) 399-405 (Aug-Sep 1998), 10A1163
Chimera RANS simulation of a berthing DDG-51 ship in translational and rotational motions, Int J Offshore Polar Eng **8**(3) 182-191 (Sep 1998), 10A1256
Direct numerical simulation of unsteady finite-span hydrofoil flow, AIAA J **37**(5) 529-536 (May 1999), 11A1105
Simulation of turbulent nonlinear free-surface flows, J Comput Phys **151**(2) 479-497 (May 1999), 11A1114
Simulation of turbulent nonlinear free-surface flows, J Comput Phys **151**(2) 425-457 (May 1999), 11T1115
Family of Eulerian-Lagrangian localized adjoint methods for multi-dimensional advection-reaction equations, J Comput Phys **152**(1) 120-163 (Jun 1999), 11A1121
Application of a direct Trefftz method with domain decomposition to 2D potential problems, Eng Anal Boundary Elements **23**(7) 539-548 (Jul 1999), 11A1135
Application of the lattice Bhatnagar-Gross-Krook method to the simulation of internal pressure-driven flow, Physica D **129**(1-2) 68-82 (May 1999), 11A1136
Efficient method for the solution of the incompressible Navier-Stokes equations in cylindrical geometries, J Comput Phys **151**(2) 563-584 (May 1999), 11A1137
Local rectangular refinement with application to nonreacting and reacting fluid flow problems, J Comput Phys **151**(2) 684-727 (May 1999), 11T1138
Nonlinear Galerkin method and Crank-Nicolson method for viscous incompressible flow, J Comput Math **17**(2) 139-158 (Mar 1999), 11A1139
Numerical analysis of backward-facing step laminar flow by direct solver (Chinese), J Xi'an Jiaotong Univ **33**(5) 38-41 (1999), 11A1140
Numerical procedure for the computation of fluid flow with arbitrary stress-strain relationships, Numer Heat Transfer B **35**(3) 295-315 (Apr-May 1999), 11A1141
Numerical simulation of axisymmetric viscous flows by means of a particle method, J Comput Phys **152**(1) 1-31 (Jun 1999), 11T1142
Overlapping control volume method for the Navier-Stokes equations on nonstaggered grids, Int J Numer Methods Fluids **30**(3) 279-308 (Jun 1999), 11A1143
Stabilized FEMs for steady incompressible flow, Comput Methods Appl Mech Eng **174**(1-2) 91-105 (May 1999), 11A1144
Two-level method and some a priori estimates in unsteady Navier-Stokes calculations, J Comput Appl Math **104**(2) 173-191 (May 1999), 11A1145
Velocity-vorticity formulation with vortex particle-in-cell method for incompressible viscous flow simulation - Part I: Formulation and validation, Numer Heat Transfer B **35**(3) 251-275 (Apr-May 1999), 11A1146
Velocity-vorticity formulation with vortex particle-in-cell method for incompressible viscous flow simulation - Part II: Application to vortex-wall interactions, Numer Heat Transfer B **35**(3) 277-294 (Apr-May 1999), 11A1147
Weighted equation approach to decay rate estimates for the Navier-Stokes equations, Nonlinear Anal **37**(6) 751-789 (Sep 1999), 11T1148
Application of an all-speed flow algorithm to heat transfer problems, Numer Heat Transfer A **35**(7) 695-715 (May 1999), 11A1385
Application of block-implicit multigrid approach to 3D heat transfer problems involving discrete heating, Numer Heat Transfer A **35**(7) 717-734 (May 1999), 11A1386
Multigrid methods for incompressible heat flow problems with an unknown interface, J Comput Phys **152**(1) 55-77 (Jun 1999), 11T1387
Stability analysis for discretized steady convective-diffusion equation, Numer Heat Transfer B **35**(3) 369-388 (Apr-May 1999), 11A1389
Computer Simulation of Dynamic Phenomena (Springer-Verlag, Berlin, 1998) 12R23
Spectral Methods for Flow Simulation (von Karman Inst, Rhode-St-Genese, Belgium) 12N30
Numerical prediction of stirred laminar and turbulent air flow in a cylindrical container, Comput Model Simul in Eng **4**(2) 92-98 (May 1999), 12T57
Nonlinear spectral Galerkin algorithm for the Navier-Stokes equations (Chinese), J Xi'an Jiaotong Univ **33**(6) 85-89 (1999), 12A74
Fringe region technique and the Fourier method used in the direct numerical simulation of spatially evolving viscous flows, SIAM J Sci Comput **20**(4) 1365-1393 (Feb 1999), 12A1070
Miscible quarter five-spot displacements in a Hele-Shaw cell and the role of flow-induced dispersion, Phys Fluids **11**(7) 1705-1716 (Jul 1999), 12T1071
Three-dimensional resin transfer molding: Isothermal process modeling and implicit tracking of moving fronts for thick, geometrically complex composites manufacturing applications - Part 2, Numer Heat Transfer A **35**(8) 839-858 (Jun 1999), 12A1090
Approximate inertial manifolds approach to post-processing the Galerkin method for the Navier-Stokes equations, Math Comput **68**(227) 893-911 (Jul 1999), 12A1091
Efficient solution method for incompressible N-S equations using non-orthogonal collocated grid, Int J Numer Methods Eng **45**(6) 741-763 (Jun 1999), 12A1092
Efficient, interface-preserving level set redistancing algorithm and its application to interfacial incompressible fluid flow, SIAM J Sci Comput **20**(4) 1165-1191 (Feb 1999), 12T1093
Finite element method for simulation of 3D form filling with incompressible fluid, Int J Heat Mass Transfer **42**(17) 3331-3336 (Sep 1999), 12A1094
Method for capturing sharp fluid interfaces on arbitrary meshes, J Comput Phys **153**(1) 26-50 (Jul 1999), 12T1095
Numerical study of an operator splitting method for rotating flows with large ageostrophic initial data, Theor Comput Fluid Dyn **13**(2) 143-159 (Jun 1999), 12A1096
Parallel computational methods for flow simulation and modeling, Comput Methods Appl Mech Eng **174**(3-4) 261-459 (May 1999), 12A1097
Three-dimensional resin transfer molding: Isothermal process modeling and explicit tracking of moving fronts for thick geometrically complex composites manufacturing applications - Part 1, Numer Heat Transfer A **35**(8) 815-838 (Jun 1999), 12A1098
Volume-of-fluid interface tracking with smoothed surface stress methods for 3D flows, J Comput Phys **152**(2) 423-456 (Jul 1999), 12A1139

354Z. Experimental techniques

Fluid surface imaging using microlens arrays, Exp Fluids **25**(2) 126-132 (Jul 1998), 2A1093
Realization of the full potential of the laser doppler anemometer in the analysis of complex flows, Aeronaut J **102**(1016) 313-320 (Jun-Jul 1998), 2A1112
Particle Image Velocimetry: A Practical Guide (Springer-Verlag, New York, 1998) 4R23
Three-dimensional flow in axial flow fans of non-free vortex design, Int J Heat Fluid Flow **19**(6) 601-607 (Dec 1998), 4A1284
Unsteady crossflow separation location measurements on a maneuvering 6:1 prolate spheroid, AIAA J **36**(11) 2063-2071 (Nov 1998), 5A948
Discharge measurement of rapid streamflow using an acoustic doppler profiler, Exp Tech **22**(6) 25-28 (Nov-Dec 1998), 5A977
Laser Doppler velocimetry measurements of twin-jet impingement flow for validation of computational models, Opt Lasers Eng **30**(3-4) 265-277 (Sep-Oct 1998), 6A1209
Laser Diagnostics in Fluid Mechanics (Begell House, New York, 1998) 7R26
Comparison of cellular automata and finite volume techniques for simulation of incompressible flows in complex geometries, Int J Numer Methods Fluids **29**(3) 251-264 (Feb 1999), 7A989
Investigation of unsteady boundary layer developed on a rotationally oscillating circular cylinder, AIAA J **37**(3) 328-336 (Mar 1999), 8A1006
Velocity profile measurement of the Taylor vortex flow of a magnetic fluid using the ultrasonic Doppler method, Exp Fluids **26**(3) 208-214 (Feb 1999), 8A1022
Automated flow-rate meter for flow-analysis systems, Lab Robotics Autom **11**(2) 97-104 (1999), 9A1138
Effectiveness of grate orientation in flow channels, Exp Tech **23**(2) 21-24 (Mar-Apr 1999), 9T1139
Flow calibration system with the use of fully rotary directive valve, Lab Robotics Autom **11**(2) 111-119 (1999), 9A1140
Velocity field measurements by LDV in free convection flow from horizontal heated disks, Heat Tech **16**(2) 47-55 (1998), 9A1328
Laboratory technique for generating a rotating, two-layer stratified channel flow, Exp Fluids **26**(5) 404-414 (Apr 1999), 10A1130

Thin film sensor for the measurement of unsteady pressure, Aeronaut J **102**(1017) 393-398 (Aug-Sep 1998), 10A1269
Two and three component velocity measurements in a wind tunnel using PIV, Aeronaut J **103**(1021) 167-173 (Mar 1999), 11A1149
Appraisal of a hot-wire temperature compensation technique for velocity measurements in non-isothermal flows, Int J Heat Mass Transfer **42**(16) 3097-3102 (Aug 1999), 11A1390

356. COMPRESSIBLE FLOW

356A. General theory

Fluid Mechanics: An Interactive Text (ASCE, Reston, VA, 1998) 1R22
Proceedings of the 1998 ASME Fluids Engineering Division Summer Meeting: FEDSM98 (ASME, New York, 1998) 1N26
Variational theory for 1D unsteady compressible flow: An image plane approach, Appl Math Model **22**(6) 395-403 (Jun 1998), 1A1127
Bulk viscosity in the Navier-Stokes equations, Int J Eng Sci **36**(11) 1313-1323 (Sep 1998), 2A1113
Low-Mach number asymptotics of the Navier-Stokes equations, J Eng Math **34**(1-2) 97-109 (Jul 1998), 2A1114
Vortical layer analysis on perturbed conical flow, AIAA J **36**(9) 1748-1750 (Sep 1998), 2T1115
Generalized variational principle for compressible S2-flow in mixed-flow turbomachinery using semi-inverse method, Int J Turbo Jet Engines **15**(2) 101-107 (1998), 3A1074
Analysis of a nonlinear fluid-structure interaction problem in velocity-displacement formulation, Nonlinear Anal **35**(5) 561-587 (Mar 1999), 4T1083
Limit of zero shear viscosity for compressible fluids, Arch Rational Mech Anal **143**(4) 357-374 (1998), 5A978
Thermodynamic relations along the principal Hugoniot, Shock Waves **8**(6) 361-366 (Dec 1998), 5T979
Extension of new preferential vibration-dissociation-exchange reactions coupling model to Zeldovich exchange reactions for hypersonic non-equilibrium air flows, Shock Waves **8**(5) 285-298 (Oct 1998), 5T981
Steady compressible flows with compact vorticity; the compressible Hill's spherical vortex, J Fluid Mech **374** 285-303 (Nov 1998), 5A982
Group classification to 2D stable viscous gas equations, Int J Non-Linear Mech **34**(3) 449-456 (May 1999), 5A984
Fluids Engineering Division - 1998 (ASME, New York, 1998) 6N31
Analyticity of the semigroup generated by the operator of a viscous compressible fluid, Math Methods Appl Sci **22**(1) 1-11 (Jan 1999), 6A1210
Analysis and simulation of a turbulent, compressible starting vortex, Phys Fluids **11**(2) 356-367 (Feb 1999), 7A990
Fundamentals of Fluid Mechanics (Wiley, New York, 1999) 8N24
Zero-viscosity limit of the linearized Navier-Stokes equations for a compressible viscous fluid in the half-plane, Commun Pure Appl Math **52**(4) 479-541 (Apr 1999), 8A1053
Entropy generation and shock resolution in the particle model of compressible fluids, Numer Math **82**(1) 161-177 (Mar 1999), 9A1141
Minimization of the total pressure loss accompanying the breakdown of a supersonic flow, J Appl Math Mech **62**(6) 939-944 (1999), 10A1144
Uniqueness results, control and asymptotic analysis for slightly compressible fluids, Math Methods Appl Sci **22**(8) 633-654 (May 1999), 10A1145
Computational Fluid Dynamics Review 1998 (World Sci Publ, Singapore, 1998) 11N6
Frontiers of Computational Fluid Dynamics 1998 (World Sci Pub, River Edge, NJ, 1998) 11N7
Convergence to traveling fronts of solutions of the p-system with viscosity in the presence of a boundary, Arch Rational Mech Anal **146**(1) 1-22 (1999), 11A1150
Zero-dissipation limit of solutions with shocks for systems of hyperbolic conservation laws, Arch Rational Mech Anal **146**(4) 275-370 (1999), 12A230

356B. Subsonic flow

Behavior of upwind schemes in the low Mach number limit, Comput Fluids **28**(1) 63-86 (Jan 1999), 4A1084
Formation of inhomogeneities in two-phase low-Mach-number compressible turbulent fluid flows, Int J Multiphase Flow **24**(7) 1163-1182 (Nov 1998), 6A1226
Computational simulation improvements of supersonic high-angle-of-attack missile flows, J Spacecraft Rockets **36**(1) 59-66 (Jan-Feb 1999), 7A1122
Friction dominated, subsonic compressible flow in channels of slowly varying cross section, Int J Heat Fluid Flow **20**(2) 166-171 (Apr 1999), 8A1054
Reynolds number effects on low-speed aerodynamics of a hypersonic configuration, J Spacecraft Rockets **36**(2) 265-272 (Mar-Apr 1999), 10A1146
Spreading characteristics of compressible jets from nozzles of various geometries, J Fluid Mech **383** 197-228 (Mar 1999), 10A1200
Structure of subsonic air wakes behind a flat plate, Exp Fluids **26**(5) 478-480 (Apr 1999), 10A1290
Riemann problems with a kink, SIAM J Math Anal **30**(3) 497-515 (Mar 1999), 11A1158

356C. Transonic flow

Analysis method for multistage transonic turbines with coolant mass flow addition, J Turbomachinery **120**(4) 744-752 (Oct 1998), 2A1116
Analytical study of transonic flows of a gas condensing onto its plane condensed phase on the basis of kinetic theory, Eur J Mech B **17**(3) 277-306 (May-Jun 1998), 2T1117
Inner workings of aerodynamic sweep, J Turbomachinery **120**(4) 671-682 (Oct 1998), 2A1243
Inviscid-viscous iterative solution for flowfield in transonic compressor rotor, Int J Turbo Jet Engines **15**(2) 109-117 (1998), 3A1075
Numerical study of Riemann problems for the 2D unsteady transonic small disturbance equation, SIAM J Appl Math **58**(5) 1365-1393 (Oct 1998), 3A1076
Near-wall k-ε computation of transonic turbomachinery flows with tip clearance, AIAA J **36**(10) 1769-1777 (Oct 1998), 3A1206
Control-surface reversal in the transonic regime, J Aircraft **35**(5) 688-694 (Sep-Oct 1998), 4A273
Two-dimensional transonic aeroelastic analysis using thin-layer Navier-Stokes methods, J Fluids Struct **12**(6) 655-676 (Aug 1998), 4T275
Behavior of upwind schemes in the low Mach number limit, Comput Fluids **28**(1) 63-86 (Jan 1999), 4A1084
Aerodynamic design of transonic wings using the target pressure optimization approach, J Aircraft **35**(5) 671-677 (Sep-Oct 1998), 4A1085
Shock wave in transonic small-disturbance flow, Comput Methods Appl Mech Eng **167**(1-2) 101-108 (Dec 1998), 6A1211
Inverse method for transonic wing design, Int J Numer Methods Eng **44**(2) 249-264 (Jan 1999), 6A1299
Computation of unsteady transonic flow over a fighter wing using a zonal Navier-Stokes and full-potential method, Int J Numer Methods Fluids **29**(5) 575-585 (Mar 1999), 8A1055
Off-design performance of a single-stage transonic turbine, J Turbomachinery **121**(2) 177-183 (Apr 1999), 8A1231
Similarity solutions of $\phi^3_x\phi_x x = \phi_{yy}$ with applications to transonic aerodynamics of dense gases, SIAM J Appl Math **59**(2) 514-528 (Nov 1998), 9A1142
Constrained, multipoint shape optimization for complex 3D configurations, Aeronaut J **102**(1017) 365-376 (Aug-Sep 1998), 10A1147
Constraints on possible singularities for the unsteady transonic small disturbance equations, Commun Pure Appl Math **52**(6) 763-779 (Jun 1999), 10A1148
Euler correction method for computing 2D unsteady transonic flows, Aeronaut J **103**(1020) 85-94 (Feb 1999), 10A1149
Turbulence modeling for supercritical flows including examples with passive shock control, Aeronaut J **103**(1020) 113-125 (Feb 1999), 10A1228
Numerical simulation of the shock-tip leakage vortex interaction in a HPC front stage, J Turbomachinery **121**(3) 456-468 (Jul 1999), 11A1151
Treatment shocks in transonic aerodynamics in the meshless method - Part I: Lagrange multiplier approach, Int J Turbo Jet Engines **16**(1) 19-25 (1999), 11A1152
Unsteady inverse problem of type B for 2D transonic flow: A variational formulation (Chinese), J Shanghai Univ **3**(1) 1-3 (Mar 1999), 12A1099

356D. Supersonic flow

Modeling of supersonic mixing and shock-wave structure in two jets interaction, Indian J Eng Mat Sci **5**(3) 97-105 (Jun 1998), 1A1128
Supersonic jet noise reductions predicted with increased jet spreading rate, J Fluids Eng **120**(3) 471-476 (Sep 1998), 1A1129
Investigation of supersonic free jets emanating from convergent-divergent nozzles, Int J Comput Fluid Dyn **10**(1) 61-71 (1998), 2T1118
Implicit multigrid method for the simulation of chemically reacting flows, J Comput Phys **146**(1) 322-345 (Oct 1998), 3T1077
Three-dimensional flows with heat addition in scramjet engine models, Memoirs Fac Eng Kyushu Univ **58**(1) 25-38 (Mar 1998), 3A1078
Computational method for supersonic viscous flow in nozzles (Chinese), J Xi'an Jiaotong Univ **32**(7) 60-62 (1998), 3A1130
Supersonic vortex breakdown during vortex-cylinder interaction, J Fluid Mech **369** 351-380 (Aug 1998), 3A1152
Computational Gasdynamics (Cambridge UP, New York, 1998) 4R20
Numerical solution of the ideal magnetohydrodynamic equations for a supersonic channel flow, J Thermophys Heat Transfer **12**(4) 507-513 (Oct-Dec 1998), 4A1086
Numerical simulation of a supersonic base-bleed projectile with improved turbulence modeling, J Spacecraft Rockets **35**(5) 606-611 (Sep-Oct 1998), 4A1247
Stability and analogy of shock wave reflection in steady flow, Shock Waves **8**(6) 367-374 (Dec 1998), 5A241
Interferometric measurement and tomography of the density field of supersonic jets, Exp Fluids **25**(5-6) 375-387 (Oct 1998), 5A980
Flow behind castellated blunt-trailing-edge aerofoils at supersonic speeds, J Fluid Mech **375** 85-111 (Nov 1998), 5A1110
Entropy-layer instabilities over a blunted flat plate in supersonic-flow, Phys Fluids **11**(1) 7-9 (Jan 1999), 6T1212
Planar visualizations of large-scale turbulent structures in axisymmetric supersonic separated flows, Phys Fluids **11**(1) 201-213 (Jan 1999), 6A1213
Investigation of random choice method for 3D steady supersonic flows, Int J Numer Methods Fluids **29**(1) 97-119 (Jan 1999), 6A1218
Effects of Mach number on supersonic wraparound fin aerodynamics, J Spacecraft Rockets **35**(6) 742-748 (Nov-Dec 1998), 7A991
Pressure over a dual-cavity cascade at supersonic speeds, Aeronaut J **103**(1019) 45-54 (Jan 1999), 7A992
Shock phenomena in high speed aerodynamics: Still a source of major concern, Aeronaut J **103**(1019) 19-34 (Jan 1999), 7A993
Flight data for boundary-layer transition at hypersonic and supersonic speeds, J Spacecraft Rockets **36**(1) 8-20 (Jan-Feb 1999), 7A1046
Experimental investigation of screech noise generation, J Fluid Mech **378** 71-96 (Jan 1999), 8A301
Numerical solution of the turbulent supersonic flow over a backward facing step, Fluid Dyn Res **24**(5) 251-273 (May 1999), 8A1056
Computation of 3D compressible flow from a rectangular nozzle with delta tabs, J Eng Gas Turbines Power **121**(2) 235-242 (Apr 1999), 8A1134
Motion of tracer particles in supersonic flows, Exp Fluids **26**(4) 288-296 (Mar 1999), 9A1143
Constrained, multipoint shape optimization for complex 3D configurations, Aeronaut J **102**(1017) 365-376 (Aug-Sep 1998), 10A1147
Experimental investigation of the ELAC 1 configuration at supersonic speeds, Exp Fluids **26**(5) 423-436 (Apr 1999), 10A1150
Pressure sensitivity paint demonstrates relationship between ejector wall pressure and aerodynamic performance, Exp Fluids **26**(6) 481-487 (May 1999), 11A1153
Robust implicit multigrid method for the simulation of turbulent supersonic mixing, AIAA J **37**(6) 766-770 (Jun 1999), 11T1154
Evolution and convection of large-scale structures in supersonic reattaching shear flows, Phys Fluids **11**(8) 2127-2138 (Aug 1999), 12A1100
Exact solutions to the equations of perfect gases through Lie group analysis and substitution principles, Int J Non-Linear Mech **34**(6) 1077-1087 (Nov 1999), 12A1101

356E. Hypersonic flow

Comparative study analysis of hypersonic rarefied gas flows near simple-shape bodies, J Spacecraft Rockets **35**(4) 424-433 (Jul-Aug 1998), 2A1119
High-order finite-difference schemes for numerical simulation of hypersonic boundary-layer transition, J Comput Phys **144**(2) 662-709 (Aug 1998), 2T1120
Nonlinear asymptotic theory of hypersonic flow past a circular cone, Acta Mech **130**(1-2) 1-15 (1998), 2A1121
Viscous-inviscid interactions of the forebody flowfield of an airbreathing hypersonic vehicle, J Spacecraft Rockets **35**(4) 442-449 (Jul-Aug 1998), 2A1122
Morkovin hypothesis and the modeling of wall-bounded compressible turbulent flows, AIAA J **36**(9) 1583-1592 (Sep 1998), 2A1152
Role of vibrational excitation in hypersonic flow computations, Meccanica **33**(4) 331-347 (Aug 1998), 3A1079
Prediction method of unsteady combustion around hypersonic projectile in stoichiometric hydrogen-air, AIAA J **36**(10) 1834-1841 (Oct 1998), 3A1375
Numerical study of hypersonic reacting boundary layer transition on cones, Phys Fluids **10**(10) 2676-2685 (Oct 1998), 4A1087
Effect of magnetic field on the structure of high-speed flows, J Spacecraft Rockets **35**(5) 639-646 (Sep-Oct 1998), 4A1231
Extension of new preferential vibration-dissociation-exchange reactions coupling model to Zeldovich exchange reactions for hypersonic non-equilibrium air flows, Shock Waves **8**(5) 285-298 (Oct 1998), 5T981
Optimization of conical wings in hypersonic flow, Theor Comput Fluid Dyn **12**(4) 219-232 (Dec 1998), 6A1214
Smooth leading edge transition in hypersonic flow, Exp Fluids **26**(1-2) 169-176 (Jan 1999), 6A1249
Aerodynamic heating measurement on afterbody of hypersonic flight experiment, J Spacecraft Rockets **35**(6) 736-741 (Nov-Dec 1998), 7A994
Aerodynamic interference for hypersonic missiles at low angle of attack, J Spacecraft Rockets **35**(6) 749-754 (Nov-Dec 1998), 7A995
Airbreathing hypersonic vehicle design and analysis methods and interactions, Prog Aerospace Sci **35**(1) 1-32 (Jan 1999), 7A996
Computational aerothermodynamic design issues for hypersonic vehicles, J Spacecraft Rockets **36**(1) 21-43 (Jan-Feb 1999), 7A997
Flush air data system calibration using numerical simulation, J Spacecraft Rockets **35**(6) 812-820 (Nov-Dec 1998), 7A998
Hypersonic blunt-body flows in hydrogen-neon mixtures, J Spacecraft Rockets **35**(6) 729-735 (Nov-Dec 1998), 7A999
Optimization of waverider-based hypersonic cruise vehicles with off-design considerations, J Aircraft **36**(1) 235-245 (Jan-Feb 1999), 7A1000
Planetary-entry gas dynamics, Annu Rev Fluid Mech **31** 459-494 (1999), 7A1001
Flight data for boundary-layer transition at hypersonic and supersonic speeds, J Spacecraft Rockets **36**(1) 8-20 (Jan-Feb 1999), 7A1046
Blunt-body wave drag reduction using focused energy deposition, AIAA J **37**(4) 460-467 (Apr 1999), 9A1144
Inner-expansion analysis on an inclined circular cone with small longitudinal curvature, J Chinese Soc Mech Eng **20**(1) 45-58 (Feb 1999), 9A1145
Aerothermodynamic overview, X-34, J Spacecraft Rockets **36**(2) 153-159 (Mar-Apr 1999), 10T1151
Engineering aerothermal analysis for X-34 thermal protection system design, J Spacecraft Rockets **36**(2) 216-228 (Mar-Apr 1999), 10A1152
Global aeroheating wind-tunnel measurements using improved two-color phosphor thermography method, J Spacecraft Rockets **36**(2) 160-170 (Mar-Apr 1999), 10A1153
Numerical investigation of shock-vortex interaction in hypersonic thermochemical nonequilibrium flow, J Spacecraft Rockets **36**(2) 240-264 (Mar-Apr 1999), 10A1154
Numerical study of hypersonic rarefied-gas flows about a torus, J Spacecraft Rockets **36**(2) 293-296 (Mar-Apr 1999), 10T1155
X-34 experimental aeroheating at Mach 6 and 10, J Spacecraft Rockets **36**(2) 171-178 (Mar-Apr 1999), 10A1156
Computational study of hypersonic transitional wake flow, J Thermophys Heat Transfer **13**(2) 236-242 (Apr-Jun 1999), 10A1199
Robust implicit multigrid method for the simulation of turbulent supersonic mixing, AIAA J **37**(6) 766-770 (Jun 1999), 11T1154
Dynamic response of pressure sensing systems in slip-flow with temperature gradients, AIAA J **37**(6) 772-774 (Jun 1999), 11T1155
Numerical simulation of laser-induced fluorescence imaging in shock-layer flows, AIAA J **37**(6) 715-722 (Jun 1999), 11A1156
Viscous shock layer on a plate in hypersonic flow, Eur J Mech B **18**(2) 213-226 (Mar-Apr 1999), 11A1157
Behavior of hypersonic wind tunnels diffusers at low Reynolds numbers, Aerospace Sci Tech **3**(1) 11-19 (Jan 1999), 12A1102
Massively separated flows due to transverse sonic jet in laminar hypersonic stream, Shock Waves **9**(2) 87-93 (Apr 1999), 12A1103

356F. Unsteady effects, vortices

Variational theory for 1D unsteady compressible flow: An image plane approach, Appl Math Model **22**(6) 395-403 (Jun 1998), 1A1127
Experimental determination of unsteady flow forces on turbine blades by hydraulic analogy (French), Rev Francaise Mec **0**(2) 115-120 (Jun 1998), 1T1250
Accuracy assessment of upwind algorithms for steady-state computations, Comput Fluids **27**(8) 941-962 (Nov 1998), 2A1123
Solution of the unsteady Euler equations using an implicit dual-time method, AIAA J **36**(8) 1417-1424 (Aug 1998), 2A1134
Test cases for unsteady 1D flow with variable cross-section, Acta Mech **131**(1-2) 1-25 (1998), 3A259
Continuity of lifting surface theory in subsonic and supersonic flow, AIAA J **36**(10) 1788-1791 (Oct 1998), 3A1184
Numerical simulation of flowfield around airfoil with stationary or oscillating spoiler, J Aircraft **35**(5) 704-711 (Sep-Oct 1998), 4A1088

Further refinement of the subsonic doublet-lattice method, J Aircraft **35**(5) 720-727 (Sep-Oct 1998), 4A1099
Steady compressible flows with compact vorticity; the compressible Hill's spherical vortex, J Fluid Mech **374** 285-303 (Nov 1998), 5A982
Studies of the transient flows in high enthalpy shock tunnels, Exp Fluids **25**(5-6) 474-486 (Oct 1998), 5A983
Wake generation compressibility effects in unsteady aerodynamics, AIAA J **37**(3) 393-396 (Mar 1999), 8T1057
One-dimensional unsteady separable and reattachable flow model for collapsible tube-flow analysis, J Biomech Eng **121**(2) 153-159 (Apr 1999), 8A1589
Inviscid flow field around the blade of wind turbines using a panel modelization (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 439-459 (1998), 9A1146
Parallel computation of turbine blade clocking, Int J Turbo Jet Engines **16**(1) 49-60 (1999), 11A1296
Evolution and convection of large-scale structures in supersonic reattaching shear flows, Phys Fluids **11**(8) 2127-2138 (Aug 1999), 12A1100
Massively separated flows due to transverse sonic jet in laminar hypersonic stream, Shock Waves **9**(2) 87-93 (Apr 1999), 12A1103
Maximal energy isolated vortices in a uniform shear flow, Nonlinear Anal **38**(1) 123-135 (Oct 1999), 12T1104
Shock oscillations on biconvex aerofoils, Aerospace Sci Tech **3**(1) 1-9 (Jan 1999), 12A1105

356G. Viscous effects

Viscous-inviscid interactions of the forebody flowfield of an airbreathing hypersonic vehicle, J Spacecraft Rockets **35**(4) 442-449 (Jul-Aug 1998), 2A1122
Spectral-hp methods for viscous compressible flows on unstructured 2D meshes, J Comput Phys **144**(2) 325-357 (Aug 1998), 2T1124
Group classification to 2D stable viscous gas equations, Int J Non-Linear Mech **34**(3) 449-456 (May 1999), 5A984
Analyticity of the semigroup generated by the operator of a viscous compressible fluid, Math Methods Appl Sci **22**(1) 1-11 (Jan 1999), 6A1210
Aerodynamic heating measurement on afterbody of hypersonic flight experiment, J Spacecraft Rockets **35**(6) 736-741 (Nov-Dec 1998), 7A994
Finite volume discretization aspects for viscous flows on mixed unstructured grids, AIAA J **37**(2) 177-184 (Feb 1999), 8A1066
Viscous shock layer on a plate in hypersonic flow, Eur J Mech B **18**(2) 213-226 (Mar-Apr 1999), 11A1157

356H. Internal flow problems

Blast wave transmission along rough-walled tunnels, Int J Impact Eng **21**(6) 419-432 (Jul 1998), 1A1130
Compressible Narrow Groove Analysis - Part 1: Derivation, J Trib **120**(4) 758-764 (Oct 1998), 2A1263
Test cases for unsteady 1D flow with variable cross-section, Acta Mech **131**(1-2) 1-25 (1998), 3A259
Three-dimensional flows with heat addition in scramjet engine models, Memoirs Fac Eng Kyushu Univ **58**(1) 25-38 (Mar 1998), 3A1078
Wave modes in ducted swirling flows, J Fluid Mech **371** 1-20 (Sep 1998), 4A1164
Shock train and pseudo-shock phenomena in internal gas flows, Prog Aerospace Sci **35**(1) 33-100 (Jan 1999), 7A1002
Advanced mixing control in supersonic airstream with a wall-mounted cavity, J Propulsion Power **15**(2) 357-360 (Mar-Apr 1999), 8T1058
Riemann problems with a kink, SIAM J Math Anal **30**(3) 497-515 (Mar 1999), 11A1158
Experimental investigation of the role of downstream ramps on a supersonic injection plume, J Propulsion Power **15**(3) 432-439 (May-Jun 1999), 12A1106

356I. Flow around bodies

Nonlinear asymptotic theory of hypersonic flow past a circular cone, Acta Mech **130**(1-2) 1-15 (1998), 2A1121
Aerothermodynamics of a parashield re-entry vehicle, J Spacecraft Rockets **35**(4) 434-441 (Jul-Aug 1998), 2A1127
Effects of Mach number on turbulent separation behaviors induced by blunt fin, Exp Fluids **25**(4) 347-351 (Sep 1998), 3A1080
Recent experience with different turbulence models applied to the calculation of flow over aircraft components, Prog Aerospace Sci **34**(7-8) 481-541 (Nov-Dec 1998), 5A1090
Inner-expansion analysis on an inclined circular cone with small longitudinal curvature, J Chinese Soc Mech Eng **20**(1) 45-58 (Feb 1999), 9A1145
Formation of a jet and vortices behind a shock wave reflected from a concave body, Shock Waves **9**(1) 31-35 (Feb 1999), 10T298
Turbulence structure resulting from a vortex-wing-tip encounter, J Am Helicopter Soc **44**(2) 141-149 (Apr 1999), 10A1229
Fast computation of stationary inviscid flow around an airfoil, J Eng Math **35**(4) 437-453 (May 1999), 12A1107
Variable-domain variational FE solution of I_A inverse problem of 2D unsteady compressible flow around oscillating airfoils, J Shanghai Univ **3**(2) 114-120 (Jun 1999), 12A1110

356K. Nonequilibrium and chemical effects

Efficient multigrid algorithm for compressible reactive flows, J Comput Phys **144**(2) 484-516 (Aug 1998), 2A1125
Limitations of a reduced model for the simulation of hydrogen-air combustion, AIAA J **36**(9) 1752-1754 (Sep 1998), 2T1126
Chemical rate constants in nonequilibrium flows, J Thermophys Heat Transfer **12**(4) 482-488 (Oct-Dec 1998), 4A1089
Measured shock-layer vibrational populations and temperatures in arcjet nitrogen flow, J Thermophys Heat Transfer **12**(4) 465-472 (Oct-Dec 1998), 4A1090
Non-Maxwell behavior of electron energy distribution functions in expanding nitrogen arcs, J Thermophys Heat Transfer **12**(4) 478-481 (Oct-Dec 1998), 4A1091
Nonequilibrium vibrational distributions of N_2 in radio-frequency parallel-Plate reactors, J Thermophys Heat Transfer **12**(4) 473-477 (Oct-Dec 1998), 4A1092
Nonequilibrium vibrational distributions of N_2 in radio-frequency parallel-Plate reactors, J Thermophys Heat Transfer **12**(4) 473-477 (Oct-Dec 1998), 4A1092
Statistical simulation of nonequilibrium rarefied flows with quasiclassical vibrational energy transfer models, J Thermophys Heat Transfer **12**(4) 489-495 (Oct-Dec 1998), 4A1093
Surface-catalyzed production of NO from recombination of N and O atoms, J Thermophys Heat Transfer **12**(4) 496-499 (Oct-Dec 1998), 4A1094
Transport properties of hydrogen, J Thermophys Heat Transfer **12**(4) 514-519 (Oct-Dec 1998), 4A1095
Techniques for estimating rotational and vibrational temperature in nitrogen arcjet flow, J Thermophys Heat Transfer **12**(4) 457-464 (Oct-Dec 1998), 4A1097
Quasi-2D benchmark problem for low Mach number compressible codes, J Comput Phys **146**(2) 691-706 (Nov 1998), 4T1101
Reduced chemical kinetic model for knock predictions (Chinese), J Huazhong Univ Sci Tech **26**(7) 39-41 (Jul 1998), 4A1433
Experiment-modeling comparison in a nonequilibrium supersonic air nozzle flow, J Thermophys Heat Transfer **13**(1) 68-75 (Jan-Mar 1999), 7A1003
Time-accurate scheme for the calculations of unsteady reactive flows at low Mach number, Int J Numer Methods Fluids **29**(2) 207-227 (Jan 1999), 7A1451
Computational model for the study of gas turbine combustor dynamics, J Eng Gas Turbines Power **121**(2) 243-248 (Apr 1999), 8A1059
Nonsingular eigenvectors of the flux Jacobian matrix for reactive flow problems, AIAA J **37**(3) 398-401 (Mar 1999), 8T1060
Application of DFWM to temperature measurement of gaseous flows: Dependencies of DFWM spectrum on pump intensity, pressure, and temperature, JSME Int J Ser B **42**(1) 111-118 (Feb 1999), 8T1062
Modeling of spacecraft rarefied environments using a proposed surface model, AIAA J **37**(4) 443-452 (Apr 1999), 9A1151
Computational model of nitrogen vibrational relaxation by electron collisions, J Thermophys Heat Transfer **13**(2) 204-209 (Apr-Jun 1999), 10A1157
Two-dimensional reactive flow dynamics in cellular detonation waves, Shock Waves **9**(1) 11-17 (Feb 1999), 10A1158

356L. Thermal effects

Aerothermodynamics of a parashield re-entry vehicle, J Spacecraft Rockets **35**(4) 434-441 (Jul-Aug 1998), 2A1127
Aspects of vane cooling with high turbulence - Part I: Heat transfer, J Turbomachinery **120**(4) 768-776 (Oct 1998), 2A1246
Aspects of vane film cooling with high turbulence - Part II: Adiabatic effectiveness, J Turbomachinery **120**(4) 777-784 (Oct 1998), 2A1247
Measured shock-layer vibrational populations and temperatures in arcjet nitrogen flow, J Thermophys Heat Transfer **12**(4) 465-472 (Oct-Dec 1998), 4A1090
Air high-enthalpy stagnation point heat flux calculation, J Thermophys Heat Transfer **12**(4) 608-610 (Oct-Dec 1998), 4T1096
Techniques for estimating rotational and vibrational temperature in nitrogen arcjet flow, J Thermophys Heat Transfer **12**(4) 457-464 (Oct-Dec 1998), 4A1097
Isobaric fix for the overheating problem in multimaterial compressible flows, J Comput Phys **148**(2) 545-578 (Jan 1999), 6A1215
Aerodynamic heating measurement on afterbody of hypersonic flight experiment, J Spacecraft Rockets **35**(6) 736-741 (Nov-Dec 1998), 7A994
Interaction of an entropy spot with a shock, AIAA J **37**(3) 346-356 (Mar 1999), 8A1061
Thermomechanics of Continua (Springer-Verlag, Berlin, 1998) 9R1
Evaluating the effective friction factor and overall heat transfer coefficient during unsteady pipeline operation, J Offshore Mech Arctic Eng **121**(2) 131-136 (May 1999), 9A1195
Aerothermodynamic overview, X-34, J Spacecraft Rockets **36**(2) 153-159 (Mar-Apr 1999), 10T1151
Engineering aerothermal analysis for X-34 thermal protection system design, J Spacecraft Rockets **36**(2) 216-228 (Mar-Apr 1999), 10A1152
Global aeroheating wind-tunnel measurements using improved two-color phosphor thermography method, J Spacecraft Rockets **36**(2) 160-170 (Mar-Apr 1999), 10A1153
Aeroheating predictions for X-34 using an inviscid boundary-layer method, J Spacecraft Rockets **36**(2) 206-215 (Mar-Apr 1999), 10A1160
Unsteady heat transfer in stator-rotor interaction by two-equation turbulence model, J Turbomachinery **121**(3) 436-447 (Jul 1999), 11A1159
Influence of molecular vibration and transport model on computation of the wall heat flux, Int J Heat Mass Transfer **42**(18) 3431-3445 (Sep 1999), 12A1108

356M. Rotating fluids or surfaces

Active stabilization of rotating stall and surge in a transonic single-stage axial compressor, J Turbomachinery **120**(4) 625-636 (Oct 1998), 2A1236
Submodel of the rotational motions of a gas in a uniform force field, J Appl Math Mech **62**(2) 243-251 (1998), 3A1081
Family of variational principles for compressible rotational blade-to-blade flow using semi-inverse method, Int J Turbo Jet Engines **15**(2) 95-100 (1998), 3A1197
Numerical simulation of the form of the free trailing vortex sheet in 3D compressible rotor flow, Int J Turbo Jet Engines **15**(4) 271-274 (1998), 7A1155
Experimental study of recirculating flow through fluid-sediment interfaces, J Fluid Mech **383** 229-247 (Mar 1999), 10A1159
Numerical simulation of the shock-tip leakage vortex interaction in a HPC front stage, J Turbomachinery **121**(3) 456-468 (Jul 1999), 11A1151
General Bernoulli equation for rotational flow in rotor, Int J Turbo Jet Engines **16**(1) 17-18 (1999), 11A1160

356Y. Computational techniques

Comparison of shock calculation methods, J Aircraft **35**(4) 647-649 (Jul-Aug 1998), 1T1131
High-order streamline Godunov scheme for steady supersonic-hypersonic equilibrium flows, Comput Methods Appl Mech Eng **159**(3-4) 261-289 (Jul 1998), 1A1132
Computing flows on general 2D nonsmooth staggered grids, J Eng Math **34**(1-2) 21-44 (Jul 1998), 2A74
Low-diffusion flux-splitting methods for flows at all speeds, AIAA J **36**(9) 1610-1617 (Sep 1998), 2A75
Viscous-inviscid interactions of the forebody flowfield of an airbreathing hypersonic vehicle, J Spacecraft Rockets **35**(4) 442-449 (Jul-Aug 1998), 2A1122
Accuracy assessment of upwind algorithms for steady-state computations, Comput Fluids **27**(8) 941-962 (Nov 1998), 2A1123
Spectral-hp methods for viscous compressible flows on unstructured 2D meshes, J Comput Phys **144**(2) 325-357 (Aug 1998), 2T1124
Efficient multigrid algorithm for compressible reactive flows, J Comput Phys **144**(2) 484-516 (Aug 1998), 2A1125
Design of local Navier-Stokes preconditioning for compressible flow, J Comput Phys **144**(2) 460-483 (Aug 1998), 2A1128
Essentially nonoscillatory Euler solutions on unstructured meshes using extrapolation, AIAA J **36**(8) 1413-1416 (Aug 1998), 2A1129
High-order pathline Godunov scheme for unsteady 1D equilibrium flows, Comput Methods Appl Mech Eng **161**(3-4) 257-288 (Aug 1998), 2A1130
Pressure-based compressible calculation method utilizing total variation diminishing schemes, AIAA J **36**(9) 1652-1657 (Sep 1998), 2A1131
Reconstruction of upwind fluxes for conservation laws: Its behavior in dynamic and steady state calculations, J Comput Phys **144**(2) 237-256 (Aug 1998), 2T1132
Riemann solvers for compressible liquids, Int J Numer Methods Fluids **28**(3) 395-418 (Sep 1998), 2A1133
Solution of the unsteady Euler equations using an implicit dual-time method, AIAA J **36**(8) 1417-1424 (Aug 1998), 2A1134
K-ϵ Reynolds stress turbulence model comparisons for 2D injection flows, AIAA J **36**(8) 1401-1412 (Aug 1998), 2A1206
Riemann Solvers and Numerical Methods for Fluid Dynamics: A Practical Introduction (Springer-Verlag, New York, 1997) 3R24
Finite element analysis of Mach reflection by using the Boussinesq equation, Int J Numer Methods Fluids **28**(4) 617-631 (Sep 1998), 3A45
Nonclassical dense gas flows for simple geometries, AIAA J **36**(10) 1842-1847 (Oct 1998), 3A254
Implicit multigrid method for the simulation of chemically reacting flows, J Comput Phys **146**(1) 322-345 (Oct 1998), 3T1077
Analysis in compressible fluid mechanics, Z Angew Math Mech **78**(9) 579-596 (1998), 3A1082
Lagrangian FE analysis of Newtonian fluid flows, Int J Numer Methods Eng **43**(4) 607-619 (Oct 1998), 3A1083
Multidimensional dissipation for upwind schemes: Stability and applications to gas dynamics, J Comput Phys **145**(2) 511-537 (Sep 1998), 3T1084
Quantitative error control for FEMs for 1D compressible flow, SIAM J Numer Anal **35**(5) 2014-2034 (Oct 1998), 3A1085
Space-marching method for calculating steady supersonic flows on a grid adapted to the solution, J Comput Phys **146**(1) 436-463 (Oct 1998), 3T1086
Two and three dimensional numerical fluid flow analysis for aerodynamic characteristics of rectangular cylinders with side ratio 4 (Japanese), Proc JSCE **598**(I-44) 401-411 (Jul 1998), 3A1187
Near-wall k-ϵ computation of transonic turbomachinery flows with tip clearance, AIAA J **36**(10) 1769-1777 (Oct 1998), 3A1206
Numerical methods for treating disparate scales in high-speed reacting flows, Numer Heat Transfer B **34**(2) 165-189 (Sep 1998), 3A1249
Computational Gasdynamics (Cambridge UP, New York, 1998) 4R20
Numerical investigation of 3D shock focusing effects on the basis of the Euler equation, Comput Fluids **28**(1) 121-138 (Jan 1999), 4A251
Behavior of upwind schemes in the low Mach number limit, Comput Fluids **28**(1) 63-86 (Jan 1999), 4A1084
Numerical simulation of flowfield around airfoil with stationary or oscillating spoiler, J Aircraft **35**(5) 704-711 (Sep-Oct 1998), 4A1088
Fast, matrix-free implicit method for compressible flows on unstructured grids, J Comput Phys **146**(2) 664-690 (Nov 1998), 4A1098
Further refinement of the subsonic doublet-lattice method, J Aircraft **35**(5) 720-727 (Sep-Oct 1998), 4A1099
High accurate solution of incompressible viscous flow with primative variable, J Hydrodyn **10**(3) 62-68 (1998), 4T1100
Quasi-2D benchmark problem for low Mach number compressible codes, J Comput Phys **146**(2) 691-706 (Nov 1998), 4T1101
Computation of internal high-speed separated flow with modified B-L and J-K models, Int J Numer Methods Fluids **28**(7) 1053-1071 (Nov 1998), 4A1145
Numerical simulation of a supersonic base-bleed projectile with improved turbulence modeling, J Spacecraft Rockets **35**(5) 606-611 (Sep-Oct 1998), 4A1247
Experience in integrating CFD to the technology of testing models in wind tunnels, Prog Aerospace Sci **34**(7-8) 391-422 (Nov-Dec 1998), 5A972
Adaptive mesh refinement using wave-propagation algorithms for hyperbolic systems, SIAM J Numer Anal **35**(6) 2298-2316 (Dec 1998), 5A985
Compressor cascade flow with strong shock-wave and boundary-layer interaction, AIAA J **36**(11) 2072-2078 (Nov 1998), 5A986
Convex entropies and hyperbolicity for general Euler equations, SIAM J Numer Anal **35**(6) 2117-2127 (Dec 1998), 5A987
Large-eddy simulation of a spatially evolving supersonic turbulent boundary-layer flow, AIAA J **36**(11) 1983-1990 (Nov 1998), 5A988
Numerical analysis of shock wave reflection transition in steady flows, AIAA J **36**(11) 2079-2086 (Nov 1998), 5A989
Numerical investigations of the compressible flow and the energy separation in the Ranque-Hilsch vortex tube, Int J Heat Mass Transfer **42**(3) 415-422 (Feb 1999), 5A990
Quasi-1D Riemann problems and their role in self-similar 2D problems, Arch Rational Mech Anal **144**(3) 233-258 (1998), 5A991
Relaxation of energy and approximate Riemann solvers for general pressure laws in fluid dynamics, SIAM J Numer Anal **35**(6) 2223-2249 (Dec 1998), 5A992
Shock capturing viscosities for the general fluid mechanics algorithm, Int J Numer Methods Fluids **28**(9) 1325-1353 (Dec 1998), 5A993

Spectral simulation of supersonic reactive flows, SIAM J Numer Anal **35**(6) 2370-2384 (Dec 1998), 5A994
Tetrahedral unstructured Navier-Stokes method for turbulent flows, AIAA J **36**(11) 1975-1982 (Nov 1998), 5A995
Wall bondary conditions for inviscid compressible flows on unstructured meshes, Int J Numer Methods Fluids **28**(10) 1481-1501 (Dec 1998), 5A996
Efficient approach for analysis of unsteady viscous flows in turbomachines, AIAA J **36**(11) 2005- 2012 (Nov 1998), 5A1141
Computer Technology of Solving Problems in Gasdynamics (Begell House, New York, 1998) 6R30
Adaptive FE solution of compressible turbulent flows, AIAA J **36**(12) 2187-2194 (Dec 1998), 6A28
Isobaric fix for the overheating problem in multimaterial compressible flows, J Comput Phys **148**(2) 545-578 (Jan 1999), 6A1215
Characterization of the flowfield near a wrap-around fin at Mach 2.8, J Aircraft **35**(6) 868-875 (Nov-Dec 1998), 6A1216
Combined large-eddy simulation and time-dependent RANS capability for high-speed compressible flows, J Sci Comput **13**(3) 253-274 (Sep 1998), 6A1217
Investigation of random choice method for 3D steady supersonic flows, Int J Numer Methods Fluids **29**(1) 97-119 (Jan 1999), 6A1218
Investigations of high-speed civil transport inlet unstart at angle of attack, J Aircraft **35**(6) 851-856 (Nov-Dec 1998), 6A1219
Preconditioning techniques in computational fluid dynamics, Annu Rev Fluid Mech **31** 385-416 (1999), 7A988
Analysis and simulation of a turbulent, compressible starting vortex, Phys Fluids **11**(2) 356-367 (Feb 1999), 7A990
Aerodynamic interference for hypersonic missiles at low angle of attack, J Spacecraft Rockets **35**(6) 749-754 (Nov-Dec 1998), 7A995
Computational aerothermodynamic design issues for hypersonic vehicles, J Spacecraft Rockets **36**(1) 21-43 (Jan-Feb 1999), 7A997
Blockwise adaptive grids with multigrid acceleration for compressible flow, AIAA J **37**(1) 121-123 (Jan 1999), 7T1004
Compact finite difference schemes on non-uniform meshes: Application to direct numerical simulations of compressible flows, Int J Numer Methods Fluids **29**(2) 159-191 (Jan 1999), 7A1005
Computations of transonic turbulent flow past airfoils using multigrid-Bi-CGSTAB algorithm, AIAA J **37**(1) 118-121 (Jan 1999), 7T1006
Efficiency improvement of unified implicit relaxation-time integration algorithms, AIAA J **37**(1) 125-128 (Jan 1999), 7T1007
Implicit solution of preconditioned Navier-Stokes equations using algebraic multigrid, AIAA J **37**(1) 29-36 (Jan 1999), 7A1008
Nonstationary compressible flow in ducts with varying cross-section, Proc Inst Mech Eng J Aerospace Eng **212**(G4) 225-243 (1998), 7A1009
Response surface models combining linear and Euler aerodynamics for supersonic transport design, J Aircraft **36**(1) 75-86 (Jan-Feb 1999), 7A1010
Stable penalty method for the compressible Navier-Stokes equations - III: Multidimensional domain decomposition schemes, SIAM J Sci Comput **20**(1) 62-93 (Aug 1998), 7T1011
Aerothermodynamic environment for a generic missile, J Spacecraft Rockets **36**(1) 44-52 (Jan-Feb 1999), 7A1120
Re-engineering the design process through computation, J Aircraft **36**(1) 36-50 (Jan-Feb 1999), 7A1145
Time-accurate scheme for the calculations of unsteady reactive flows at low Mach number, Int J Numer Methods Fluids **29**(2) 207-227 (Jan 1999), 7A1451
ENO approximations for compressible fluid dynamics, Z Angew Math Mech **79**(1) 3-28 (1999), 8A27
Discontinuous Galerkin method for the Navier-Stokes equations, Int J Numer Methods Fluids **29**(5) 587-603 (Mar 1999), 8A60
Computation of unsteady transonic flow over a fighter wing using a zonal Navier-Stokes and full-potential method, Int J Numer Methods Fluids **29**(5) 575-585 (Mar 1999), 8A1055
Numerical solution of the turbulent supersonic flow over a backward facing step, Fluid Dyn Res **24**(5) 251-273 (May 1999), 8A1056
Nonsingular eigenvectors of the flux Jacobian matrix for reactive flow problems, AIAA J **37**(3) 398-401 (Mar 1999), 8T1060
Interaction of an entropy spot with a shock, AIAA J **37**(3) 346-356 (Mar 1999), 8A1061
Application of DFWM to temperature measurement of gaseous flows: Dependencies of DFWM spectrum on pump intensity, pressure, and temperature, JSME Int J Ser B **42**(1) 111-118 (Feb 1999), 8T1062
Constructing an entropy-stable upwind scheme for compressible fluid flow computations, AIAA J **37**(3) 303-312 (Mar 1999), 8A1063
Defining wave amplitude in characteristic boundary conditions, J Comput Phys **149**(2) 418-422 (Mar 1999), 8T1064
Finite volume algorithm to compute dense compressible gas-solid flows, AIAA J **37**(3) 337-345 (Mar 1999), 8A1065
Finite volume discretization aspects for viscous flows on mixed unstructured grids, AIAA J **37**(2) 177-184 (Feb 1999), 8A1066
Spurious numerical oscillations in simulation of supersonic flows using shock-capturing schemes, AIAA J **37**(3) 313-319 (Mar 1999), 8A1067
Third-order; modified-flux-approach-type essentially nonoscillating schemes for wave equations, AIAA J **37**(3) 384-386 (Mar 1999), 8T1068
Chebyshev pseudospectral-FEM for the 3D unsteady Navier-Stokes equation, Appl Math Comput **101**(2-3) 209-244 (Jun 1999), 9A33
Method for separating shock wave motion and turbulence in LDV measurements, Exp Fluids **26**(4) 358-370 (Mar 1999), 9A280
Computer visualization of vortex wake systems, AIAA J **37**(4) 511-512 (Apr 1999), 9T1137
Blunt-body wave drag reduction using focused energy deposition, AIAA J **37**(4) 460-467 (Apr 1999), 9A1144
Characteristic-based treatment of source terms in Euler equations for Roe scheme, AIAA J **37**(4) 417-424 (Apr 1999), 9A1147
Entropy satisfaction of a conservative shock-tracking method, SIAM J Numer Anal **36**(2) 529-550 (Jan 1999), 9A1148
Flow computations around delta wings using unstructured hybrid grids, J Aircraft **36**(2) 374-379 (Mar-Apr 1999), 9A1149
Mathematical and physical constraints on large-eddy simulation of turbulence, AIAA J **37**(4) 425-433 (Apr 1999), 9A1150
Modeling of spacecraft rarefied environments using a proposed surface model, AIAA J **37**(4) 443-452 (Apr 1999), 9A1151
Multiphase Godunov method for compressible multifluid and multiphase flows, J Comput Phys **150**(2) 425-467 (Apr 1999), 9T1152
Shock oscillations in diffuser modeled by a selective noise amplification, AIAA J **37**(4) 453-459 (Apr 1999), 9A1153
Global aeroheating wind-tunnel measurements using improved two-color phosphor thermography method, J Spacecraft Rockets **36**(2) 160-170 (Mar-Apr 1999), 10A1153
Numerical investigation of shock-vortex interaction in hypersonic thermochemical nonequilibrium flow, J Spacecraft Rockets **36**(2) 240-264 (Mar-Apr 1999), 10A1154
X-34 experimental aeroheating at Mach 6 and 10, J Spacecraft Rockets **36**(2) 171-178 (Mar-Apr 1999), 10A1156
Aeroheating predictions for X-34 using an inviscid boundary-layer method, J Spacecraft Rockets **36**(2) 206-215 (Mar-Apr 1999), 10A1160
Computational aeroheating predictions for X-34, J Spacecraft Rockets **36**(2) 179-188 (Mar-Apr 1999), 10A1161
Heating analysis of the nosecap and leading edges of the X-34 vehicle, J Spacecraft Rockets **36**(2) 199-205 (Mar-Apr 1999), 10A1162
Inviscid and viscous simulations of spoiler performance, Aeronaut J **102**(1017) 399-405 (Aug-Sep 1998), 10A1163
Numerical and experimental simulation of hypervelocity flow around the HYFLEX vehicle forebody, Shock Waves **9**(1) 57-67 (Feb 1999), 10A1267
Handbook of Numerical Analysis, Volume VI: Numerical Methods for Solids (Part 3), Numerical Methods for Fluids (Part 1) (Elsevier Sci, New York, 1998) 11N9
Boundary elements and optimization for linearized compressible flows around immersed airfoils, Eng Anal Boundary Elements **23**(7) 591-596 (Jul 1999), 11A1161
Cancellation problem in calculating compressible low Mach number flows, J Comput Phys **151**(2) 597-615 (May 1999), 11T1162
Monotonically integrated large eddy simulation of free shear flows, AIAA J **37**(5) 544-556 (May 1999), 11A1163
Parallel implementation of an upwind Euler solver for hovering rotor flows, Aeronaut J **103**(1021) 129-138 (Mar 1999), 11A1164
Application of an all-speed flow algorithm to heat transfer problems, Numer Heat Transfer A **35**(7) 695-715 (May 1999), 11A1385
Computer Simulation of Dynamic Phenomena (Springer-Verlag, Berlin, 1998) 12R23
High Resolution (Upwind and TVD Methods) for the Compressible Flow Equations (von Karman Inst, Rhode-St-Genese, Belgium) 12N27
Spectral Methods for Flow Simulation (von Karman Inst, Rhode-St-Genese, Belgium) 12N30
Remark on numerical errors downstream of slightly viscous shocks, SIAM J Numer Anal **36**(3) 853-863 (Mar-May 1999), 12A241
Behavior of hypersonic wind tunnels diffusers at low Reynolds numbers, Aerospace Sci Tech **3**(1) 11-19 (Jan 1999), 12A1102
Fast computation of stationary inviscid flow around an airfoil, J Eng Math **35**(4) 437-453 (May 1999), 12A1107
Flux-extrapolation at supersonic outflow boundaries, Appl Numer Math **30**(4) 447-457 (Jul 1999), 12A1109
Variable-domain variational FE solution of I_A inverse problem of 2D unsteady compressible flow around oscillating airfoils, J Shanghai Univ **3**(2) 114-120 (Jun 1999), 12A1110

356Z. Experimental techniques

Artificial boundary conditions for the linearized compressible Navier-Stokes equations - II: The discrete approach, J Comput Phys **144**(1) 151-179 (Jul 1998), 1A1133
Realization of the full potential of the laser doppler anemometer in the analysis of complex flows, Aeronaut J **102**(1016) 313-320 (Jun-Jul 1998), 2A1112
Measurement of vegetation sweep-up at high shock overpressure, AIAA J **36**(9) 1751-1752 (Sep 1998), 2T1135
Particle Image Velocimetry: A Practical Guide (Springer-Verlag, New York, 1998) 4R23
Application of thin-film technology to measure turbine-vane heat transfer and effectiveness in a film-cooled, engine-simulated environment, Int J Heat Fluid Flow **19**(6) 594-600 (Dec 1998), 4A1102
Evaluation of estimation methods for high unsteady heat fluxes from surface measurements, J Thermophys Heat Transfer **12**(4) 543-551 (Oct-Dec 1998), 4A1335
Interferometric measurement and tomography of the density field of supersonic jets, Exp Fluids **25**(5-6) 375-387 (Oct 1998), 5A980
Studies of the transient flows in high enthalpy shock tunnels, Exp Fluids **25**(5-6) 474-486 (Oct 1998), 5A983
PLIF thermometry in shock tunnel flows using a Raman-shifted tunable excimer laser, Shock Waves **8**(5) 275-284 (Oct 1998), 5A997
Uncertainty estimates for temperature-sensitive paint measurements with charge-coupled device cameras, AIAA J **36**(11) 2102-2108 (Nov 1998), 5A1167
Modeling of Richtmyer-Meshkov instability-induced turbulent mixing in shock-tube experiments, Phys Fluids **11**(1) 214-225 (Jan 1999), 6A1220
Propagation of medium energy electrons (10 - 20keV) in carbon dioxide, Phys Fluids **11**(1) 226-234 (Jan 1999), 6T1221
Laser Diagnostics in Fluid Mechanics (Begell House, New York, 1998) 7R26
Effects of Mach number on supersonic wraparound fin aerodynamics, J Spacecraft Rockets **35**(6) 742-748 (Nov-Dec 1998), 7A991
Normal vortex interaction with a circular cylinder, AIAA J **37**(1) 50-57 (Jan 1999), 7A1012
Aerothermodynamic environment for a generic missile, J Spacecraft Rockets **36**(1) 44-52 (Jan-Feb 1999), 7A1120
Shock oscillations in diffuser modeled by a selective noise amplification, AIAA J **37**(4) 453-459 (Apr 1999), 9A1153
Flow visualization using fluorescence from locally seeded I_2 excited by an ArF excimer laser, Exp Fluids **26**(4) 335-339 (Mar 1999), 9A1307
Diaphragm rupture: Impingement by a conically-nosed ram-accelerator projectile, Shock Waves **9**(1) 19-30 (Feb 1999), 10T301
Experimental investigation of the ELAC 1 configuration at supersonic speeds, Exp Fluids **26**(5) 423-436 (Apr 1999), 10A1150
Global aeroheating wind-tunnel measurements using improved two-color phosphor thermography method, J Spacecraft Rockets **36**(2) 160-170 (Mar-Apr 1999), 10A1153
Experimental study of recirculating flow through fluid-sediment interfaces, J Fluid Mech **383** 229-247 (Mar 1999), 10A1159
Thin film sensor for the measurement of unsteady pressure, Aeronaut J **102**(1017) 393-398 (Aug-Sep 1998), 10A1269
Pressure sensitivity paint demonstrates relationship between ejector wall pressure and aerodynamic performance, Exp Fluids **26**(6) 481-487 (May 1999), 11A1153
Dynamic response of pressure sensing systems in slip-flow with temperature gradients, AIAA J **37**(6) 772-774 (Jun 1999), 11T1155
Numerical simulation of laser-induced fluorescence imaging in shock-layer flows, AIAA J **37**(6) 715-722 (Jun 1999), 11A1156
Behavior of hypersonic wind tunnels diffusers at low Reynolds numbers, Aerospace Sci Tech **3**(1) 11-19 (Jan 1999), 12A1102

358. RAREFIED FLOW

358B. Kinetic theory

Asymptotic analysis for a particle transport problem in a moving medium, IMA J Appl Math **60**(2) 167-185 (Apr 1998), 1A1134
Global weak solutions for the initial-boundary-value problems to the Vlasov-Poisson-Fokker-Planck system, Math Methods Appl Sci **21**(10) 907-938 (Jul 1998), 1A1135
Model transport equation with inelastic scattering, SIAM J Appl Math **58**(4) 1128-1137 (Aug 1998), 1A1136
Analytical study of transonic flows of a gas condensing onto its plane condensed phase on the basis of kinetic theory, Eur J Mech B **17**(3) 277-306 (May-Jun 1998), 2T1117
Discrete velocity model of a gas: global in time solutions of the BBGKY hierarchy, Reports Math Phys **40**(3) 431-464 (Dec 1997), 2A1136
Computation of the transport coefficients of polar gases using verified numerical integration, Z Angew Math Mech **78**(8) 555-563 (1998), 3A1087
Diffusion approximation of a transport process in random media, SIAM J Appl Math **58**(5) 1604-1621 (Oct 1998), 3A1088
Exponential convergence toward equilibrium for homogeneous Fokker-Planck-type equations, Math Methods Appl Sci **21**(13) 1269-1286 (Sep 1998), 3A1089
Boltzmann-Grad limit for a particle system in a slab with stochastic walls, Math Methods Appl Sci **21**(17) 1543-1558 (Nov 1998), 4A1103
New class of weak solutions to the spatially homogeneous Boltzmann and Landau equations, Arch Rational Mech Anal **143**(3) 273-307 (1998), 4A1104
Trimodal approximate solutions of the nonlinear Boltzmann equation, Math Methods Appl Sci **21**(16) 1479-1494 (Nov 1998), 4A1105
Rarefied gas flow between two cylinders caused by the evaporation and condensation on their surfaces, Phys Fluids **10**(12) 3203-3208 (Dec 1998), 5A998
Cylindrical Couette flows of a rarefied gas with evaporation and condensation: Reversal and bifurcation of flows, Phys Fluids **11**(2) 476-490 (Feb 1999), 7T1013
Fundamentals of Fluid Mechanics (Wiley, New York, 1999) 8N24
Gaussian moment closure for gas dynamics, SIAM J Appl Math **59**(1) 72-96 (Sep 1998), 8A1069
H theorem for a cloud of inelastic spheres (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 227-234 (Feb-Mar 1999), 9A1154
Influence of nonequilibrium kinetics on heat transfer and diffusion near re-entering body, J Thermophys Heat Transfer **13**(2) 210-218 (Apr-Jun 1999), 10A1164
Kinetics of free radicals behind strong shock waves, J Thermophys Heat Transfer **13**(2) 219-225 (Apr-Jun 1999), 10A1165
Molecular cavity flow, Fluid Dyn Res **25**(1) 37-56 (Jul 1999), 11T1165
Thermal Physics (Cambridge UP, New York, 1999) 12R31
Boltzmann equation for dissipative disparate mixtures, Appl Math Lett **12**(6) 71-76 (Aug 1999), 12A1111
Vibrational-translational energy exchange models for the direct simulation Monte Carlo method, Phys Fluids **11**(8) 2117-2126 (Aug 1999), 12T1112

358C. Transition (incl slip)

Experimental investigation of the role of atmospheric stability in wind wave growth, Coastal Eng **34**(1-2) 23-33 (Jul 1998), 2T315
New silicon gas-flow sensor based on lift force, J Microelectromechanical Syst **7**(3) 303-308 (Sep 1998), 2A547

358D. Free molecular flow

Detailed computation of ultraviolet spectra in rarefied hypersonic flow, J Spacecraft Rockets **35**(5) 653-659 (Sep-Oct 1998), 4A1107
Remark on Newton's resistance formula, Z Angew Math Mech **79**(6) 423-427 (1999), 12A1113

358E. Gas surface interaction

Particle transport problem with non-homogeneous reflection boundary conditions, Math Methods Appl Sci **21**(11) 1049-1066 (Jul 1998), 1A1137
Effect of gas conditions on HVOF flame and properties of WC-Co coatings, Mat Manuf Processes **14**(3) 383-395 (1999), 11T1166

358F. Flow in tubes and ducts (Knudsen flow)

Slip flow in rectangular microtubes, Microscale Thermophys Eng **2**(4) 273-282 (Oct-Dec 1998), 5A999
Hypersonic blunt-body flows in hydrogen-neon mixtures, J Spacecraft Rockets **35**(6) 729-735 (Nov-Dec 1998), 7A999
Model for flows in channels, pipes, and ducts at micro and nano scales, Microscale Thermophys Eng **3**(1) 43-77 (Jan-Mar 1999), 8A1070

358G. Multicomponents (gas mixtures)

Local Cauchy problem for multicomponent reactive flows in full vibrational non-equilibrium, Math Methods Appl Sci **21**(15) 1415-1439 (Oct 1998), 4A1106
Analysis of flow, temperature, and chemical composition distortion in gas sampling through an orifice during chemical vapor deposition, Phys Fluids **11**(4) 821-832 (Apr 1999), 8T1071
Measurements of thermal creep in binary gas mixtures, Phys Fluids **11**(6) 1662-1672 (Jun 1999), 11T1167
New approach to model and simulate numerically surface chemistry in rarefied flows, Phys Fluids **11**(6) 1650-1661 (Jun 1999), 11T1168

358Y. Computational techniques

Focusing a shock wave: Microscopic structure of the phenomenon, Arch Mech **50**(2) 265-279 (1998), 1A1138
Grid and particle hydrodynamics: Beyond hydrodynamics via fluid element particle-in-cell, J Comput Phys **144**(2) 358-378 (Aug 1998), 2A1137
Numerical study comparing kinetic flux-vector splitting for the Navier-Stokes equations with a particle method, J Comput Phys **145**(2) 489-510 (Sep 1998), 3T1090
Detailed computation of ultraviolet spectra in rarefied hypersonic flow, J Spacecraft Rockets **35**(5) 653-659 (Sep-Oct 1998), 4A1107
Diffusive relaxation schemes for multiscale discrete-velocity kinetic equations, SIAM J Numer Anal **35**(6) 2405-2439 (Dec 1998), 5A1000
Moment realizability and the validity of the Navier-Stokes equations for rarefied gas dynamics, Phys Fluids **10**(12) 3214-3226 (Dec 1998), 5T1001
Improved FE flux-corrected transport algorithm, J Comput Phys **148**(2) 605-620 (Jan 1999), 6A1222
Relaxation scheme for a Lattice-Boltzmann-type discrete velocity model and numerical Navier-Stokes limit, J Comput Phys **148**(2) 416-432 (Jan 1999), 6T1223
Convergence of moment methods for linear kinetic equations, SIAM J Numer Anal **36**(1) 74-88 (Jan 1999), 8A1072
Monte Carlo simulation of the heat flow in a dense hard sphere gas, Eur J Mech B **18**(1) 103-119 (Jan-Feb 1999), 8A1073
Non-isothermal Couette flow of a rarefied gas between two rotating cylinders, Eur J Mech B **18**(1) 121-130 (Jan-Feb 1999), 8A1074
Test of efficiency of variable soft sphere and variable hard sphere molecular models in the direct simulation Monte Carlo method, JSME Int J Ser B **40**(4) 529-535 (Nov 1997), 8T1075
Using a curvilinear grid to construct symmetry-preserving discretizations for Lagrangian gas dynamics, J Comput Phys **149**(2) 389-417 (Mar 1999), 8T1076
LES model sensitivities to domains, grids, and large-eddy timescales, J Atmos Sci **56**(4) 599-604 (Feb 1999), 8T1203
Composite scheme for gas dynamics in Lagrangian coordinates, J Comput Phys **150**(2) 502-517 (Apr 1999), 9T1155
Kinetic semidiscretization of scalar conservation laws and convergence by using averaging lemmas, SIAM J Numer Anal **36**(2) 465-474 (Jan 1999), 9A1156
Simulation of isothermal fission gas release: An analytical solution, Nucl Eng Des **187**(3) 327-337 (Mar 1999), 9A1520
Nose-Poincare method for constant temperature molecular dynamics, J Comput Phys **151**(1) 114-134 (May 1999), 10T1166
Three-dimensional Monte Carlo simulations of plume impingement, J Thermophys Heat Transfer **13**(2) 226-235 (Apr-Jun 1999), 10A1204
New approach to model and simulate numerically surface chemistry in rarefied flows, Phys Fluids **11**(6) 1650-1661 (Jun 1999), 11T1168
Discrete model collision operators of Boltzmann type, J Comput Appl Math **104**(2) 145-162 (May 1999), 11A1169
Vibrational-translational energy exchange models for the direct simulation Monte Carlo method, Phys Fluids **11**(8) 2117-2126 (Aug 1999), 12T1112
Dynamic molecular collision model for rarefied gas flow simulations by the DSMC method, Phys Fluids **11**(7) 1907-1920 (Jul 1999), 12A1114

358Z. Experimental techniques

Focusing a shock wave: Microscopic structure of the phenomenon, Arch Mech **50**(2) 265-279 (1998), 1A1138
Hypersonic blunt-body flows in hydrogen-neon mixtures, J Spacecraft Rockets **35**(6) 729-735 (Nov-Dec 1998), 7A999

360. MULTIPHASE FLOWS

360A. General theory

Finite propagation for a pseudoparabolic equation: Two-phase non-equilibrium flows in porous media, Nonlinear Anal **33**(6) 551-573 (Sep 1998), 1T1139
Theoretical analysis of flow characteristics of multiphase mixtures in a vertical pipe, Int J Multiphase Flow **24**(4) 539-561 (Jun 1998), 1T1140
Equation for spherical-particle motion: Effect of Reynolds and acceleration numbers, J Fluid Mech **367** 221-253 (Jul 1998), 2A1138
Lift force on a spherical bubble in a viscous linear shear flow, J Fluid Mech **368** 81-126 (Aug 1998), 3A1102
Numerical and theoretical study of a dual mesh method using finite volume schemes for two phase flow problems in porous media, Numer Math **80**(4) 601-639 (Oct 1998), 4A1108
Theory of Multicomponent Fluids (Springer-Verlag, New York, 1998) 5R35
Direct analysis of particulate suspensions with inertia using the discrete Boltzmann equation, J Fluid Mech **373** 287-311 (Oct 1998), 5T1002
Mathematical model and numerical simulation of settling of flocculated suspensions, Int J Multiphase Flow **24**(6) 1005-1023 (Sep 1998), 5T1006
Evaluation of equilibrium and non-equilibrium evaporation models for many-droplet gas-liquid flow simulations, Int J Multiphase Flow **24**(6) 1025-1055 (Sep 1998), 5T1011
Disjoining pressure effect on the wetting characteristics in a capillary tube, Microscale Thermophys Eng **2**(4) 283-297 (Oct-Dec 1998), 5A1305
Heat Transfer Division - 1998, Volume 5: Numerical and Experimental Method in Heat Transfer (ASME, New York, 1998) 7N33
Analytical inflow performance relationships, J Energy Resources Tech **121**(1) 24-30 (Mar 1999), 7A1014
Analysis on liquid-vapor bubbly-flow systems in reciprocating motion, J Fluids Eng **121**(1) 185-190 (Mar 1999), 7A1031
Fluid Dynamics at Interfaces (Cambridge UP, New York, 1999) 8N23
Hamilton's principle and Rankine-Hugoniot conditions for general motions of mixtures, Meccanica **34**(1) 39-47 (Feb 1999), 9A1157
Lattice-Boltzmann simulations of particles in nonzero-Reynolds-number flows, J Fluid Mech **385** 41-62 (Apr 1999), 11A1170
Motion of a finger with bubbles in a Hele-Shaw cell: An exact solution, Phys Fluids **11**(6) 1281-1283 (Jun 1999), 11A1186

360B. Mixtures of liquid or gas with solid particles (eg slurries)

Theoretical analysis of flow characteristics of multiphase mixtures in a vertical pipe, Int J Multiphase Flow **24**(4) 539-561 (Jun 1998), 1T1140
Comparison of two-way coupling models for confined turbulent gas-particle jets in flash smelting, Appl Math Model **22**(1-2) 39-55 (Jan-Feb 1998), 1A1141
Dynamics of gas-assisted injection molding process, J Reinforced Plastics Composites **17**(12) 1087-1095 (1998), 1A1142
Prediction of performance characteristics of a centrifugal slurry pump handling clear liquid, Indian J Eng Mat Sci **5**(3) 91-96 (Jun 1998), 1A1257
Scour at Marine Structures (Telford, UK, 1998) 2R20
Oscillatory motions of circular disks and nearly spherical particles in viscous flows, J Fluid Mech **367** 329-358 (Jul 1998), 2A1084
Particle dispersion in a turbulent round jet, Exp Thermal Fluid Sci **18**(1) 11-26 (Sep 1998), 2A1139
Comparison of 1D and 3D models for the simulation of gas-solids transport systems, Appl Math Model **22**(7) 517-532 (Jul 1998), 3A1091
Hydrodynamics of particles embedded in a flat surfactant layer overlying a subphase of finite depth, J Fluid Mech **369** 151-173 (Aug 1998), 3A1092
Motion of a dipolar spherical particle in homogeneous shear and time-periodic fields, J Fluid Mech **369** 191-216 (Aug 1998), 3A1093
Particle entrainment in a bounded rotating flow with a drain, J Fluids Eng **120**(4) 676-679 (Dec 1998), 3A1094
Two-dimensional turbulent model and its numerical calculation for gas-particle flow in a vertical duct (Chinese), J Xi'an Jiaotong Univ **32**(7) 41-45 (1998), 3A1095
Direct numerical simulation of particle deposition onto a free-slip and no-slip surface, Phys Fluids **10**(10) 2608-2620 (Oct 1998), 4A1109
Electrophoretic motion of a charged spherical particle normal to a planar dielectric wall, Int J Multiphase Flow **24**(5) 793-824 (Aug 1998), 4A1110
Influence of particle rotation on wake stability at particle Reynolds numbers, $Re_p < 300$: Implications for turbulence modulation in two-phase flows, Int J Multiphase Flow **24**(5) 693-720 (Aug 1998), 4T1111
Linear instability of a particle-laden mixing layer with a dynamic dispersed phase, Phys Fluids **10**(10) 2539-2557 (Oct 1998), 4A1112
Modeling the aggregation and break-up of fractal aggregates in a shear flow, Appl Sci Res **59**(2-3) 255-268 (1997), 4A1113
Motion of inertial spheroidal particles in a shear flow near a solid wall with special application to aerosol transport in microgravity, J Fluid Mech **371** 59-79 (Sep 1998), 4A1114
Observations of coagulation in isotropic turbulence, J Fluid Mech **371** 81-107 (Sep 1998), 4A1115
Predictions of 3D strongly swirling gas-solid two-phase flow with gas combustion, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 57-61 (Jun 1998), 4A1116
Role of the turbulent scales in the settling velocity of heavy particles in homogeneous isotropic turbulence, J Fluid Mech **371** 179-205 (Sep 1998), 4A1117
Statistical mechanical descriptions of turbulent coagulation, Phys Fluids **10**(10) 2647-2651 (Oct 1998), 4T1118
Brinkman screening and the covariance of the fluid velocity in fixed beds, Phys Fluids **10**(12) 3035-3040 (Dec 1998), 5T1003
Generalized shock wave analysis of two-phase flow, Mech Res Commun **25**(6) 613-622 (Nov-Dec 1998), 5T1004
Impulsive motion of a liquid resulting from a particle collision, J Fluid Mech **375** 345-361 (Nov 1998), 5A1005
Mathematical model and numerical simulation of settling of flocculated suspensions, Int J Multiphase Flow **24**(6) 1005-1023 (Sep 1998), 5T1006
Modeling of concentrated suspensions using a continuum constitutive equation, J Fluid Mech **373** 193-219 (Oct 1998), 5A1007
Simulation of gas-solid particle flows over a wide range of concentration, Int J Numer Methods Fluids **28**(10) 1441-1479 (Dec 1998), 5A1008
Thermophoretic, convective and electrophoretic transport for stagnation flow on an infinite wall, J Mat Processing Manuf Sci **6**(2) 147-160 (Oct 1997), 5A1009
Engineering Flow and Heat Exchange, Revised Edition (Plenum, New York, 1998) 6R35
Entrainment of fine particles from surfaces by impinging shock waves, Exp Fluids **26**(1-2) 116-125 (Jan 1999), 6A257
Coarse particle wall friction in vertical slurry flows, Particulate Sci Tech **16**(2) 125-133 (Apr-Jun 1998), 6A1224
Dynamics of dual-particles settling under gravity, Int J Multiphase Flow **24**(8) 1343-1358 (Dec 1998), 6A1225
Formation of inhomogeneities in two-phase low-Mach-number compressible turbulent fluid flows, Int J Multiphase Flow **24**(7) 1163-1182 (Nov 1998), 6A1226
Numerical simulation of coal powder passing through large particles (Chinese), J Tsinghua Univ Sci Tech **38**(6) 101-103 (Jun 1998), 6A1227
Pipeline transport of coarse particles by water and by fluids with yield stresses, Particulate Sci Tech **16**(2) 163-183 (Apr-Jun 1998), 6A1228
Modeling of axisymmetric two-phase dilute flows, Int J Comput Fluid Dyn **10**(4) 301-313 (1998), 6T1244
Mathematical model of air dust depositing within the human respiratory system (Chinese), J Huazhong Univ Sci Tech **26**(10) 76-78 (Oct 1998), 6A1598
Enhanced Sedimentation in Inclined Fracture Channels (Comput Mech, Billerica MA, 1998) 7R23
High flux rate particle filtration from liquids, J Fluids Eng **121**(1) 163-170 (Mar 1999), 7A1015
Mechanics of immersed particle collisions, J Fluids Eng **121**(1) 179-184 (Mar 1999), 7A1016
Particle Lagrangian tracking with hydrodynamic interactions and collisions, Flow Turbulence Combust **60**(1) 1-18 (1998), 7T1017
Two-phase jet impingement for non-volatile residue removal, Proc Inst Mech Eng E **212**(E4) 271-279 (1998), 7A1018
Two-phase modeling of deflagration-to-detonation transition in granular materials: A critical examination of modeling issues, Phys Fluids **11**(2) 378-402 (Feb 1999), 7T1019
Effects of increasing particle loading in an axisymmetric, vertical, liquid-solid sudden expansion flow, J Fluids Eng **121**(1) 171-178 (Mar 1999), 7A1061
Turbulent solid-liquid flow through the nozzle of premixed abrasive water jet cutting systems, Proc Inst Mech Eng J Eng Manuf **213**(B1) 59-67 (1999), 7A1062
Decay of rate of isotropic turbulence laden with microparticles, Phys Fluids **11**(3) 602-610 (Mar 1999), 8A1077
Effect of particle existence on low Reynolds number gas-particle free jet: Re = 800, JSME Int J Ser B **42**(1) 9-15 (Feb 1999), 8A1078
Experimental study of dynamic solid-liquid phase equilibrium in a porous medium, JSME Int J Ser B **41**(3) 590-600 (Aug 1998), 8T1079
Gravitational settling of particles through density interfaces, J Fluid Mech **381** 175-198 (Feb 1999), 8A1080
Screening mechanisms in sedimentation, Phys Fluids **11**(4) 754-772 (Apr 1999), 8A1081
Inertial lift on a spherical particle in a plane Poiseuille flow at large channel Reynolds number, J Fluid Mech **381** 63-87 (Feb 1999), 8A1128
Area tensors for modeling microstructure during laminar liquid-liquid mixing, Int J Multiphase Flow **25**(1) 35-61 (Feb 1999), 9T1133
Computational study of the inertial life on a sphere in a linear shear flow field, Int J Multiphase Flow **25**(1) 15-33 (Feb 1999), 9T1158
Entrainment of fine particles from surfaces by gas jets impinging at normal incidence, Exp Fluids **26**(4) 324-334 (Mar 1999), 9A1159
Particle interaction with the wall surface in two-phase gas-solid particle flow, Int J Multiphase Flow **25**(1) 139-154 (Feb 1999), 9A1160
Predictable model for characteristics of 1D solid-gas-liquid three-phase mixtures flow along a vertical pipeline with an abrupt enlargement in diameter, J Fluids Eng **121**(2) 330-342 (Jun 1999), 9A1161
Viscous resuspension in a bidensity suspension, Int J Multiphase Flow **25**(1) 1-14 (Feb 1999), 9T1162
Numerical study of sedimentation by dripping instabilities in viscous fluids, Int J Multiphase Flow **25**(2) 307-320 (Mar 1999), 9A1185
Dynamic simulation of one and two particles sedimenting in viscoelastic suspensions of FENE dumbbells, J Non-Newtonian Fluid Mech **83**(1-2) 93-130 (Jun 1999), 10A1103
Effect of anisotropy on the turbulent dispersion and deposition of small particles, Int J Multiphase Flow **25**(3) 551-558 (Apr 1999), 10T1222
Particle dispersion in forced isotropic low-Mach-number turbulence, Int J Heat Mass Transfer **42**(15) 2823-2836 (Aug 1999), 10A1226
Loose Boundary Hydraulics (Balkema, Rotterdam, Netherlands, 1998) 11R25
Experimental study of the sedimentation of dilute and semi-dilute suspensions of fibers, J Fluid Mech **384** 133-158 (Apr 1999), 11A1029
Shear viscosity of a molten composite short fibers, Comptes Rendus L'Acad Sci Serie II **327**(6) 559-565 (Jun 1999), 11A1039
Competition of mixing and segregation in rotating cylinders, Phys Fluids **11**(6) 1387-1394 (Jun 1999), 11A1117
Flow through and particle interception by an infinite array of closely-spaced circular cylinders, Eur J Mech B **18**(2) 173-196 (Mar-Apr 1999), 11A1124
Lattice-Boltzmann simulations of particles in nonzero-Reynolds-number flows, J Fluid Mech **385** 41-62 (Apr 1999), 11A1170
Particle dispersion in variable density and viscosity shear flows, Phys Fluids **11**(6) 1373-1386 (Jun 1999), 11A1171
Transition from frictional to viscous regime for granular suspensions, Comptes Rendus L'Acad Sci Serie II **327**(5) 515-522 (May 1999), 11A1172
Self-lubricated transport of bitumen froth, J Fluid Mech **386** 127-148 (May 1999), 11A1190
Perturbation study of particle dynamics in a plane wake flow, J Fluid Mech **384** 1-26 (Apr 1999), 11A1220
Two-way coupled particle-laden mixing layer - Part 1: Linear instability, Int J Multiphase Flow **25**(4) 575-598 (Jun 1999), 11A1241
High concentration granular shear flow, J Hydraul Res **37**(2) 229-248 (1999), 11A1512
Velocity fluctuations in a bidisperse sedimenting suspension, Phys Fluids **11**(7) 1953-1955 (Jul 1999), 12T1115
Distributed Lagrange multiplier-fictitious domain method for particulate flows, Int J Multiphase Flow **25**(5) 755-794 (Aug 1999), 12T1135
PDF model for dispersed particles with inelastic particle-wall collisions, Phys Fluids **11**(7) 1858-1868 (Jul 1999), 12T1200
Particle aggregation in a turbulent Keplerian flow, Phys Fluids **11**(8) 2280-2287 (Aug 1999), 12A1211

360C. Liquid-gas mixture

Vibroresonance conditions of motion of gas-liquid media in the structures under polyharmonic excitation, Prikl Mekh (Appl Mech) **34**(1) 64-70 (1998), 1A283
LDA measurements of local velocities inside the gas phase in horizontal stratified-atomization two-phase flow, Int J Multiphase Flow **24**(4) 651-661 (Jun 1998), 1T1143
Two-phase flow from a stratified region through a small side branch, J Fluids Eng **120**(3) 605-612 (Sep 1998), 1A1144
Modeling of GMA weld pools with consideration of droplet impact, J Eng Mat Tech **120**(4) 313-320 (Oct 1998), 2A1047
Annual reviews in multiphase flow 1997: Drops in annular two-phase flow, Int J Multiphase Flow **23**(S) 1-53 (Dec 1997), 2A1140
Evolution of a gas bubble near an inclined wall, Theor Comput Fluid Dyn **12**(1) 29-51 (Jul 1998), 2A1143

Flow pattern transition for vertical downward two-phase flow of high viscosity liquid (Chinese), J Xi'an Jiaotong Univ **32**(8) 28-30 (1998), 3A1096
Local pressure drop characteristics of oil-gas-water flow around 90° pipe elbow (Chinese), J Xi'an Jiaotong Univ **32**(9) 37-40 (1998), 3A1097
Experiments on bubble behavior in a horizontal narrow divergent passage, Heat Transfer Japan Res **27**(6) 447-461 (1998), 4A1119
Heat transfer of high velocities two-phase flow of saturation water and air in a heated narrow-tube (Chinese), J Shanghai Jiaotong Univ **32**(7) 136-138 (Jul 1998), 4A1120
Measurement of kinematic parameters for a gas slug and estimate of bubble size (Chinese), J Xi'an Jiaotong Univ **32**(10) 22-25 (1998), 4A1121
Study on the transition of a gas-liquid counter-current flow to a concurrent flow on a vertical flat plate, J Brazilian Soc Mech Sci **20**(3) 301-324 (Sep 1998), 4A1122
Oscillations and breakup of a bubble immersed in a turbulent field, J Fluid Mech **372** 323-355 (Oct 1998), 4A1128
Effect of flow-induced vibration on local flow parameters of two-phase flow, Nucl Eng Des **185**(2-3) 113-125 (Oct 1998), 5A1010
Evaluation of equilibrium and non-equilibrium evaporation models for many-droplet gas-liquid flow simulations, Int J Multiphase Flow **24**(6) 1025-1055 (Sep 1998), 5T1011
Transition of intermittent-annular flow of oil-gas-water three-phase flow of downward vertical tube (Chinese), J Xi'an Jiaotong Univ **32**(11) 44-48 (1998), 5A1012
Two-phase co-current flow in inclined pipe, Int J Heat Mass Transfer **41**(24) 4205-4228 (Dec 1998), 5A1013
Two-phase momentum flux in pipes and its application to incompressible flow in nozzles, Proc Inst Mech Eng C **212**(C7) 631-641 (1998), 5A1014
Oscillations of liquids in single-outlet vessels, Proc Inst Mech Eng C **212**(C8) 759-764 (1998), 6A250
Monofiber optical probes for gas detection and gas velocity measurements: Optimized sensing tips, Int J Multiphase Flow **24**(8) 1295-1315 (Dec 1998), 6T1229
Novel centrifugal gas-liquid separator for catching intermittent flows, Int J Multiphase Flow **24**(7) 1057-1078 (Nov 1998), 6A1230
Study on entrainment of liquid drop size in air-water annular flow (Chinese), J Xi'an Jiaotong Univ **32**(12) 24-28 (1998), 6A1231
Use of the stratified momentum balance for the deduction of shear stress in horizontal gas-liquid pipe flow, Int J Multiphase Flow **24**(8) 1407-1423 (Dec 1998), 6T1232
Monofiber optical probes for gas detection and gas velocity measurements: Conical probes, Int J Multiphase Flow **24**(8) 1265-1294 (Dec 1998), 6T1246
Aspect ratio modeling and design procedure for GLCC compact separators, J Energy Resources Tech **121**(1) 15-23 (Mar 1999), 7A1020
Flow field prediction and bubble trajectory model in gas-liquid cylindrical cyclone separators, J Energy Resources Tech **121**(1) 9-14 (Mar 1999), 7A1021
Investigation on flow and heat transfer characteristics of annular two-phase flow through the venturi tube, J Hydrodyn **10**(4) 113-118 (1998), 7T1022
Mathematical model and constitutive formulations for frictional pressure drop of oil-water-air three-phase flow in horizontal pipes (Chinese), J Xi'an Jiaotong Univ **33**(1) 59-63 (1999), 7A1023
Prediction of pressure drop in a boiling channel, J Heat Transfer **121**(1) 210-213 (Feb 1999), 7T1024
Pressure distributions around circular cylinder for gas-liquid two-phase cross flow (Chinese), J Xi'an Jiaotong Univ **33**(1) 55-58 (1999), 7A1025
Rough finite volume scheme for modeling two-phase flow in a pipeline, Comput Fluids **28**(2) 213-241 (Feb 1999), 7T1026
Compressional heating of isolated gas bubbles in reactive media, Math Eng Industry 7(3) 361-387 (1999), 7A1032
Flow characteristics of gas-liquid two-phase annular flow under microgravity: Experimental results utilizing a drop tower, JSME Int J Ser B **41**(3) 561-567 (Aug 1998), 8T1032
Frictional pressure drop of oil-water-air three-phase flow in horizontal pipes (Chinese), J Xi'an Jiaotong Univ **33**(3) 48-51 (1999), 8A1082
Observations of two-phase flow patterns in a horizontal circular channel, Heat Transfer Eng **20**(1) 9-14 (Jan-Mar 1999), 8A1083
Transient model of oil-gas two-phase flow in pipelines (Chinese), J Xi'an Jiaotong Univ **33**(3) 56-59 (1999), 8A1084
Correlative mapping method for measuring individual phase flow rates in air-water two-phase flow based on stochastic features, JSME Int J Ser B **41**(4) 863-870 (Nov 1998), 8T1097
Selection of differencing schemes on simulating the sprinkler hot-air layer problem, Numer Heat Transfer A **35**(3) 311-330 (Feb 1999), 8A1341
Co-current and countercurrent migration of gas kicks in "horizontal" wells, J Energy Resources Tech **121**(2) 96-101 (Jun 1999), 9A1163
Effect of drag-reducing agent on slug characteristics in multiphase flow in inclined pipes, J Energy Resources Tech **121**(2) 86-90 (Jun 1999), 9A1164
Effects of entrainment and deposition mechanisms on annular dispersed two-phase flow in a converging nozzle, Int J Multiphase Flow **25**(2) 321-347 (Mar 1999), 9T1165
Estimation of two-phase flow heat transfer in pipes, J Energy Resources Tech **121**(2) 75-80 (Jun 1999), 9A1166
Investigation of flow regime transitions in large-diameter inclined pipes, J Energy Resources Tech **121**(2) 91-95 (Jun 1999), 9A1167
Single and double optical probes in air-water two-phase flows: Real time signal processing and sensor performance, Int J Multiphase Flow **25**(2) 229-256 (Mar 1999), 9T1168
Air bubbles in a Couette-Taylor flow (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 207-213 (Feb-Mar 1999), 9A1174
Downward bubbly gas-liquid flow in a vertical pipe, Int J Multiphase Flow **25**(1) 109-138 (Feb 1999), 9T1176
Polydisperse model for bubbly two-phase flow around a surface ship, Int J Multiphase Flow **25**(2) 257-305 (Mar 1999), 9A1259
Characterization of two-phase flow patterns in small diameter round and rectangular tubes, Int J Heat Mass Transfer **42**(15) 2869-2881 (Aug 1999), 10A1167
Dynamic behavior of liquid and gas-liquid media in conical shells being in the field of vibration forces (Russian), Prikl Mekh (Appl Mech) **35**(2) 23-29 (1999), 10A1168
Gas-liquid two-phase flow in microchannels - Part I: Two-phase flow patterns, Int J Multiphase Flow **25**(3) 377-394 (Apr 1999), 10T1169
Study of gas-liquid two-phase flow transport processes (Chinese), J Dalian Univ Tech **39**(2) 228-234 (Mar 1999), 10A1170
Force variations on particle induced by bubble-particle collision, Int J Multiphase Flow **25**(3) 477-500 (Apr 1999), 10T1173
Near wall structure in vertical air-water annular flows, Int J Multiphase Flow **25**(3) 459-476 (Apr 1999), 10T1218
Numerical evaluation of interfacial area concentration using the immiscible lattice gas, Nucl Eng Des **188**(1) 111-121 (Apr 1999), 11A1173
Dynamics of vapor bubbles in acoustic pressure fields, Phys Fluids **11**(8) 2008-2019 (Aug 1999), 12A1116
Experimental determination of the frictional pressure drop of oil-gas-water three-phase flow (Chinese), J Shanghai Jiaotong Univ **33**(3) 259-261 (Mar 1999), 12A1117
Interfacial area concentration in horizontal two-phase bubbly flow (Chinese), J Xi'an Jiaotong Univ **33**(6) 24-27 (1999), 12A1118
Model on the void fraction in liquid slugs for vertical slug flows, J Beijing IT **8**(1) 42-47 (Mar 1999), 12A1119

360D. Liquid-vapor mixture

Liquid holdup in large-diameter horizontal multiphase pipelines, J Energy Resources Tech **120**(3) 185-192 (Sep 1998), 1A1145
Tomographic imaging of the phase distribution in two-phase slug flow, Int J Multiphase Flow **24**(4) 617-634 (Jun 1998), 1T1146
Heat transfer of air-water dispersed flow in a vertical pipe, Heat Transfer Japan Res **27**(4) 255-270 (1998), 2A1288
Gravity-driven injection experiments and direct-contact condensation regime map for passive high-pressure injection systems, Nucl Eng Des **183**(3) 213-234 (Jul 1998), 2A1500
Characteristics of flowrate transients in slug flow, Int J Multiphase Flow **24**(5) 825-854 (Aug 1998), 4T1123
Holdup propagation predicted by steady-state drift flux models, Int J Multiphase Flow **24**(5) 757-774 (Aug 1998), 4T1124
Separation mechanism of steam-water two-phase flows in a steam-water separator with corrugated baffle (Chinese), J Huazhong Univ Sci Tech **26**(S1) 5-7 (May 1998), 4A1125
Performance and pressure distribution changes in a centrifugal pump under two-phase flow, Proc Inst Mech Eng A **212**(A3) 165-171 (1998), 4A1274
Influence of wall proximity on the equilibrium temperature of curved interfaces, Heat and Mass Transfer Warme **34**(2-3) 151-158 (Oct 1998), 5A1015
Experimental study on two-phase natural circulation and flow termination in a loop, Nucl Eng Des **186**(3) 395-409 (Dec 1998), 6A1531
Heat Transfer Division - 1998, Volume 1: Heat Transfer in Flowing Systems (ASME, New York, 1998) 7N30
Mathematical model and constitutive formulations for frictional pressure drop of oil-water-air three-phase flow in horizontal pipes (Chinese), J Xi'an Jiaotong Univ **33**(1) 59-63 (1999), 7A1023
Mechanistic model for predicting pressure drop in vertical upward two-phase flow, J Energy Resources Tech **121**(1) 1-8 (Mar 1999), 7A1027
Analysis on liquid-vapor bubbly-flow systems in reciprocating motion, J Fluids Eng **121**(1) 185-190 (Mar 1999), 7A1031
Network model of vapor-liquid two-phase flow, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 25-29 (Dec 1998), 8A1085
Experimental study on interfacial area transport in bubbly two-phase flows, Int J Heat Mass Transfer **42**(16) 3019-3035 (Aug 1999), 11A1174
Mechanistic critical heat flux model for wide range of subcooled and low quality flow boiling, Nucl Eng Des **188**(1) 27-47 (Apr 1999), 11A1175
Molecular dynamics study of water vapor absorption into an aqueous electrolyte solution, Microscale Thermophys Eng **3**(2) 151-165 (Apr-Jun 1999), 11A1176
Comprehensive study of measurement uncertainty in tomographic reconstruction of void-profiles in a mercury-nitrogen flow, Exp Fluids **26**(6) 535-541 (May 1999), 11A1285
Analysis of 2D two-phase flow in horizontal heated tube bundles using drift flux model, Heat and Mass Transfer Warme **35**(1) 81-88 (May 1999), 12A1120
Analytical investigation of role expansion tank in semi-closed two-phase natural circulation loop, Nucl Eng Des **190**(3) 353-360 (Jun 1999), 12A1121
Coupled liquid and vapor flow in miniature passages with micro grooves, J Heat Transfer **121**(3) 729-733 (Aug 1999), 12A1122

360E. Liquid drop formation

Near-contact motion of surfactant-covered spherical drops, J Fluid Mech **366** 259-287 (Jul 1998), 1A1147
Significance of the dispersed-phase viscosity on the simple shear flow of suspensions of 2D liquid drops, J Fluid Mech **365** 205-234 (Jun 1998), 1A1148
TAR model for calculation of droplet-wall impingement, J Fluids Eng **120**(3) 593-597 (Sep 1998), 1A1187
Numerical simulation of superoscillations of a Triton-bearing drop in microgravity, J Fluid Mech **367** 205-220 (Jul 1998), 2A1098
Annual reviews in multiphase flow 1997: Drops in annular two-phase flow, Int J Multiphase Flow **23**(S) 1-53 (Dec 1997), 2A1140
Droplet-turbulence interactions in low-Mach-number homogeneous shear two-phase flows, J Fluid Mech **367** 163-203 (Jul 1998), 2A1141
Two-dimensional numerical method for the deformation of drops with surface tension, Int J Comput Fluid Dyn **10**(3) 225-240 (1998), 2A1142
Electrohydrodynamic deformation and interaction of drop pairs, J Fluid Mech **368** 359-375 (Aug 1998), 3A1098
Experimental study into droplet formation in steam flows, Appl Sci Res **59**(1) 1-9 (1997), 3A1099
Low-Reynolds number spreading of axisymmetric drops and gravity currents along a free surface, Phys Fluids **10**(11) 3011-3013 (Nov 1998), 4T1126
Direct droplet production from a liquid film: A new gas-assisted atomization mechanism, J Fluid Mech **375** 363-381 (Nov 1998), 5A1016
Temporal properties of secondary drop breakup in the bag breakup regime, Int J Multiphase Flow **24**(6) 889-912 (Sep 1998), 5T1017
Transient temperature measurements in a convectively cooled droplet, Exp Fluids **25**(5-6) 392-400 (Oct 1998), 5A1018
Spin coating and air-jet blowing of thin viscous drops, Phys Fluids **11**(1) 30-47 (Jan 1999), 6A1180
Direct numerical simulation of droplet collisions in a turbulent channel flow - Part II: Collision rates, Int J Multiphase Flow **24**(7) 1105-1138 (Nov 1998), 6A1233
Displacement of 3D fluid droplets from solid surfaces in low-Reynolds-number shear flows, J Fluid Mech **377** 189-222 (Dec 1998), 7A1028
Finite element method study of Eulerian droplets impingement models, Int J Numer Methods Fluids **29**(4) 429-449 (Feb 1999), 7A1029
Mass-transfer enhancement via chaotic laminar flow within a droplet, J Fluid Mech **379** 319-331 (Jan 1999), 8A99
Comparison of multicomponent fuel droplet vaporization experiments in forced convection with the Sirignano model, Exp Thermal Fluid Sci **18**(4) 282-290 (Dec 1998), 8T1086
Effect of liquid droplet deformation on the displacement due to airstreams, JSME Int J Ser B **41**(4) 855-862 (Nov 1998), 8T1087
Levitation of a drop over a film flow, J Fluid Mech **380** 297-307 (Feb 1999), 8A1088
Mechanism for drop formation on a coated vertical fiber, J Fluid Mech **380** 233-255 (Feb 1999), 8A1089
Buoyancy-driven viscous interaction of a rising drop with a smaller trailing drop, Phys Fluids **11**(5) 1016-1028 (May 1999), 9A1169
Critical behavior of drop breakup in axisymmetric viscous flow, Phys Fluids **11**(5) 990-996 (May 1999), 9A1170
Experimental trajectories of two drops in planar extensional flow, Phys Fluids **11**(5) 971-981 (May 1999), 9A1171
Fluid dynamics of a double emulsion droplet in an electric field, Phys Fluids **11**(5) 1029-1041 (May 1999), 9A1172
Spreading of a non-isothermal liquid droplet, Phys Fluids **11**(5) 982-989 (May 1999), 9A1173
Displacement of a 2D immiscible droplet adhering to a wall in shear and pressure-driven flows, J Fluid Mech **383** 29-54 (Mar 1999), 10A1171
Droplet's response to acoustic excitation, Int J Multiphase Flow **25**(3) 531-550 (Apr 1999), 10A1172
Insoluble surfactants on a drop in an extensional flow: A generalization of the stagnated surface limit to deforming interfaces, J Fluid Mech **385** 79-99 (Apr 1999), 11A1131
Deformation of a liquid drop adhering to a plane wall: Significance of the drop viscosity and the effect of an insoluble surfactant, Phys Fluids **11**(6) 1297-1308 (Jun 1999), 11A1177
Single drop impact onto liquid films: Neck distortion, jetting, tiny bubble entrainment, and crown formation, J Fluid Mech **385** 229-254 (Apr 1999), 11A1178
Spontaneous thermocapillary interaction of drops, bubbles, and particles: Unsteady convective effects at low Peclet numbers, Phys Fluids **11**(7) 1768-1780 (Jul 1999), 12A1087
Jet and drops formation in electrohydrodynamic spraying of liquids: A systematic approach, Exp Fluids **27**(1) 43-52 (Jun 1999), 12A1130

360F. Bubble dynamics

Thermocapillary and buoyant bubble motion with variable viscosity, Int J Multiphase Flow **24**(4) 679-683 (Jun 1998), 1T1117
Analysis of Rayleigh-Plesset dynamics for sonoluminescing bubbles, J Fluid Mech **365** 171-204 (Jun 1998), 1A1149
Motion of gas bubbles in a liquid under the influence of acoustical standing wave, Arch Acoust **22**(4) 445-454 (1997), 1A1150
Thermocapillary migration of bubbles at large Reynolds numbers, Int J Multiphase Flow **24**(4) 685-692 (Jun 1998), 1T1151
Evolution of a gas bubble near an inclined wall, Theor Comput Fluid Dyn **12**(1) 29-51 (Jul 1998), 2A1143
Thermal processes in the oscillations of gas bubbles in tubes, J Acoust Soc Am **104**(3-PT1) 1389-1398 (Sep 1998), 2A1144
Bubble dynamics in a compressible shear-thinning liquid, Fluid Dyn Res **23**(5) 291-318 (Nov 1998), 3A1100
Interaction of background ocean air bubbles with a surface ship, Int J Numer Methods Fluids **28**(4) 571-600 (Sep 1998), 3A1101
Lift force on a spherical bubble in a viscous linear shear flow, J Fluid Mech **368** 81-126 (Aug 1998), 3A1102
Preliminary study on bubble departure in flow boiling under microgravity (Chinese), J Huazhong Univ Sci Tech **26**(6) 53-55 (Jun 1998), 3A1103
Three-dimensional computation of bubbles near a free surface, J Comput Phys **146**(1) 105-123 (Oct 1998), 3A1104
Shock waves in a uniform bubbly flow, Phys Fluids **10**(10) 2661-2668 (Oct 1998), 4T252
Bubmac method: A numerical method bubble dynamics in vortex core, J Hydrodyn **10**(3) 1-16 (1998), 4T1127
Oscillations and breakup of a bubble immersed in a turbulent field, J Fluid Mech **372** 323-355 (Oct 1998), 4A1128
Role of surface disturbances in the entrainment of bubbles by a liquid jet, J Fluid Mech **372** 189-212 (Oct 1998), 4A1187
Theory of Multicomponent Fluids (Springer-Verlag, New York, 1998) 5R35
Decay of bubble oscillations, Phys Fluids **10**(12) 3227-3229 (Dec 1998), 5T1019
Measurement of air-gun bubble oscillations, Geophys **63**(6) 2009-2024 (Nov-Dec 1998), 5A1020
Light extinction technique for void fraction measurements in bubbly flow, Exp Fluids **26**(1-2) 16-26 (Jan 1999), 6A1234
Numerical investigation of thermocapillary flow around a bubble, Phys Fluids **11**(1) 18-29 (Jan 1999), 6A1235
Shock formation within sonoluminescence bubbles, Phys Fluids **11**(1) 10-17 (Jan 1999), 6T1236
Turbulent flow past a bubble and an ellipsoid using shadow-image and PIV techniques, Int J Multiphase Flow **24**(8) 1383-1406 (Dec 1998), 6T1237
Nuclear Engineering Division - 1998 (ASME, New York, 1998) 7N27
Study of tip vortex cavitation inception using Navier-Stokes computation and bubble dynamics model, J Fluids Eng **121**(1) 198-204 (Mar 1999), 7A949

Acoustic cavitation of slightly subcritical bubbles, Phys Fluids **11**(2) 274-287 (Feb 1999), 7A1030
Analysis on liquid-vapor bubbly-flow systems in reciprocating motion, J Fluids Eng **121**(1) 185-190 (Mar 1999), 7A1031
Compressional heating of isolated gas bubbles in reactive media, Math Eng Industry **7**(3) 361-387 (1999), 7A1032
Direct numerical simulations of bubbly flows - Part I: Low Reynolds number arrays, J Fluid Mech **377** 313-345 (Dec 1998), 7A1033
Interaction of an explosion bubble with a fixed rigid structure, Int J Numer Methods Fluids **29**(4) 389-396 (Feb 1999), 7A1034
Measurement in the wake region of two bubbles in close proximity by combined shadow-image and PIV techniques, J Fluids Eng **121**(1) 191-197 (Mar 1999), 7A1040
Bubble capture and migration in Couette-Taylor flow, Exp Fluids **26**(3) 233-239 (Feb 1999), 8A1018
Marangoni effects on the motion of an expanding or contracting bubble pinned at a submerged tube tip, J Fluid Mech **379** 279-302 (Jan 1999), 8A1034
Thermocapillary migration of bubbles and drops at moderate to large Marangoni number and moderate Reynolds number in reduced gravity, Exp Fluids **26**(3) 240-248 (Feb 1999), 8A1040
Bubble behavior in a horizontal narrow divergent passage: 1D approximate analysis, Heat Transfer Asian Res **28**(2) 102-114 (1999), 8A1090
Growth and collapse of single bubble and its noise (Chinese), J Shanghai Jiaotong Univ **32**(12) 50-54 (Dec 1998), 8A1091
Numerical analysis of detailed flow structures of a bubble plume, JSME Int J Ser B **41**(3) 568-574 (Aug 1998), 8A1092
Radial pulsations of a fluid sphere in a sound wave, J Fluid Mech **380** 1-38 (Feb 1999), 8A1093
Rising speed and dissolution rate of a carbon dioxide bubble in slightly contaminated water, J Fluid Mech **378** 319-334 (Jan 1999), 8A1094
Influence of incipient cavitation, J Huazhong Univ Sci Tech **27**(1) 66-68 (Jan 1999), 9A1105
Air bubbles in a Couette-Taylor flow (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 207-213 (Feb-Mar 1999), 9A1174
Cavity outflow from a nearly horizontal pipe, Int J Multiphase Flow **25**(2) 349-364 (Mar 1999), 9T1175
Downward bubbly gas-liquid flow in a vertical pipe, Int J Multiphase Flow **25**(1) 109-138 (Feb 1999), 9T1176
Effect of flow acceleration on mass or heat transfer at the surface of a spherical bubble (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 63-70 (Jan 1999), 9A1177
Effects of higher-order modes and harmonics in single-bubble sonoluminescence, J Acoust Soc Am **105**(4) 2236-2242 (Apr 1999), 9A1178
Experimental analysis of bubble shapes during condensation in miscible and immiscible liquids, J Fluids Eng **121**(2) 496-502 (Jun 1999), 9A1179
Role of turbulence in the phenomenological theory of plane and axisymmetric air-bubble plumes, Int J Multiphase Flow **25**(1) 87-108 (Feb 1999), 9T1180
Slip velocity measurements in an upward bubbly flow by combined LDA and electrodiffusional techniques, Exp Fluids **26**(4) 305-314 (Mar 1999), 9A1181
Three-dimensional oscillation of bubbly flow in a vertical cylinder, Int J Multiphase Flow **25**(1) 175-182 (Feb 1999), 9T1182
Sensitivity study on double-sensor conductivity probe for the measurement of interfacial area concentration in bubbly flow, Int J Multiphase Flow **25**(1) 155-173 (Feb 1999), 9T1188
Mathematical and Physical Modeling of Materials Processing Operations (CRC Press, Boca Raton FL, 1999) 10N26
Role of bubble collapse pressure in cavitation erosion, JSME Int J Ser A **41**(1) 96-102 (Jan 1998), 10A1110
Dynamic behavior of liquid and gas-liquid media in conical shells being in the field of vibration forces (Russian), Prikl Mekh (Appl Mech) **35**(2) 23-29 (1999), 10A1168
Force variations on particle induced by bubble-particle collision, Int J Multiphase Flow **25**(3) 477-500 (Apr 1999), 10T1173
Development of a bubble rising in a viscous liquid, J Fluid Mech **387** 61-96 (May 1999), 11A1179
Direct numerical simulations of bubbly flows - Part 2: Moderate Reynolds number arrays, J Fluid Mech **385** 325-358 (Apr 1999), 11A1180
Effect of macromolecular polymer additives on the cavitation phenomenon, Appl Mech Eng **4**(S) 455-460 (1999), 11T1181
Effect of viscosity on the spherical stability of oscillating gas bubbles, Phys Fluids **11**(6) 1309-1317 (Jun 1999), 11T1182
Experimental and numerical comparisons of the break-up of a large bubble, Exp Fluids **26**(6) 524-534 (May 1999), 11A1183
Force on a growing bubble in potential flow, Int J Multiphase Flow **25**(4) 705-713 (Jun 1999), 11A1184
Gas-assisted displacement of viscoelastic fluids: Flow dynamics at the bubble front, J Non-Newtonian Fluid Mech **83**(3) 183-203 (Jul 1999), 11A1185
Motion of a finger with bubbles in a Hele-Shaw cell: An exact solution, Phys Fluids **11**(6) 1281-1283 (Jun 1999), 11A1186
Sonoluminescence light emission, Phys Fluids **11**(6) 1318-1330 (Jun 1999), 11A1187
Three-dimensional analysis of the steady-state shape and small-amplitude oscillation of a bubble in uniform and nonuniform electric fields, J Fluid Mech **384** 59-91 (Apr 1999), 11A1188
First-order model for bubble dynamics in a compressible viscoelastic liquid, J Non-Newtonian Fluid Mech **84**(1) 83-103 (Jul 1999), 12A586
Spontaneous thermocapillary interaction of drops, bubbles, and particles: Unsteady convective effects at low Peclet numbers, Phys Fluids **11**(7) 1768-1780 (Jul 1999), 12A1087
Dynamics of vapor bubbles in acoustic pressure fields, Phys Fluids **11**(8) 2008-2019 (Aug 1999), 12A1116
Averaged and time-dependent characteristics of the motion of an elongated bubble in a vertical pipe, Int J Multiphase Flow **25**(5) 795-812 (Aug 1999), 12T1123
Experimental observations of the interaction of a laser generated cavitation bubble with a flexible membrane, Phys Fluids **11**(8) 2437-2439 (Aug 1999), 12A1124
Growth and collapse of a vapor bubble in a small tube, Int J Heat Mass Transfer **42**(19) 3643-3657 (Oct 1999), 12A1125
Numerical study of the oscillations of a nonspherical bubble in an inviscid, incompressible liquid - Part I: Free oscillations from nonequilibrium initial conditions, Int J Multiphase Flow **25**(5) 887-919 (Aug 1999), 12T1126
Structure and dynamics of the wake of bubbles and its relevance for bubble interaction, Phys Fluids **11**(7) 1781-1796 (Jul 1999), 12T1127
Water flow distribution in horizontal header contaminated with bubbles, Int J Multiphase Flow **25**(5) 827-840 (Aug 1999), 12T1128
Direct numerical simulations of 3D bubbly flows, Phys Fluids **11**(8) 1967-1969 (Aug 1999), 12T1134

360G. Froth flow and spray flow

LDA measurements of local velocities inside the gas phase in horizontal stratified-atomization two-phase flow, Int J Multiphase Flow **24**(4) 651-661 (Jun 1998), 1T1143
Drop size and velocity measurements in an electrostatically produced hydrocarbon spray, J Fluids Eng **120**(3) 580-585 (Sep 1998), 1A1152
Spray jets in a cross-flow, J Fluid Mech **365** 109-136 (Jun 1998), 1A1153
Studies on the behavior of droplets and the air flow in a hollow-cone spray, J Fluids Eng **120**(3) 586-592 (Sep 1998), 1A1154
Cyclic variability of pulsed spray vapor fields, Exp Fluids **25**(4) 329-336 (Sep 1998), 3A1105
Influence of atomizing gas molecular weight on low mass flowrate effervescent atomizer performance, J Fluids Eng **120**(4) 750-754 (Dec 1998), 3A1106
Proceedings of the 7th International Conference on Liquid Atomization and Spray Systems, August 18-22, 1997, Seoul, Korea (Begell House, New York, 1997) 4N28
Behavior of drops in contact with pool surfaces of different liquids, Phys Fluids **10**(11) 2786-2796 (Nov 1998), 4A1129
Frequency characteristics of noise from a gas-liquid sprayer (Chinese), J Xi'an Jiaotong Univ **32**(11) 49-52 (1998), 5A1021
Multidimensional modeling of impinging sprays on the wall in diesel engines, Appl Mech Rev **52**(4) 119-138 (Apr 1999), 5A1140
Hot plate impactor: A novel instrument for continuous characterization of liquid sprays, Proc Inst Mech Eng E **212**(E4) 225-233 (1998), 7A1035
Effect of liquid droplet deformation on the displacement due to airstreams, JSME Int J Ser B **41**(4) 855-862 (Nov 1998), 8T1087
Visualization and measurements of sub-millisecond transient spray dynamics applicable to direct injection gasoline engine - Part 2: PDA measurements and analysis of instantaneous spray patterns, JSME Int J Ser B **42**(1) 30-38 (Feb 1999), 8T1095
Prediction of holdup, axial pressure gradient and wall shear stress in wavy stratified and stratified-atomization gas-liquid flow, Int J Multiphase Flow **25**(2) 365-376 (Mar 1999), 9T1183
Atomization of dilute polymer solutions in agricultural spray nozzles, J Non-Newtonian Fluid Mech **83**(1-2) 163-178 (Jun 1999), 10A1174
Gas-liquid two-phase flow regimes in rectangular channels with mini-micro gaps, Int J Multiphase Flow **25**(3) 411-432 (Apr 1999), 10T1175
Characterization of charged hydrocarbon sprays for application in combustion systems, Exp Fluids **26**(5) 460-469 (Apr 1999), 10A1453
Note on the optimum profile of a sprayless planning surface, J Fluid Mech **384** 281-292 (Apr 1999), 11A1189
Self-lubricated transport of bitumen froth, J Fluid Mech **386** 127-148 (May 1999), 11A1190
Compressibility and condensation effects when pumping gas-liquid mixtures, Fluid Dyn Res **25**(2) 57-62 (Aug 1999), 12A1129
Jet and drops formation in electrohydrodynamic spraying of liquids: A systematic approach, Exp Fluids **27**(1) 43-52 (Jun 1999), 12A1130
LDA-PDA measurements of instantaneous characteristics in high pressure fuel injection and swirl spray, Exp Fluids **27**(1) 1-11 (Jun 1999), 12A1131
Visualization of high-speed gas jets and their airblast sprays of cross-injected liquid, Exp Fluids **27**(1) 102-106 (Jun 1999), 12A1164

360H. Mixtures of liquid, gas, and solid particles

Numerical simulation of the distribution characteristics of fine solid particles in a horizontal pipe, Proc Estonian Acad Sci Eng **4**(2) 144-160 (Jun 1998), 2A1145
Three-dimensional modeling, estimation, and fault diagnosis of spacecraft air contaminants, J Spacecraft Rockets **35**(4) 565-574 (Jul-Aug 1998), 2A1146
Advanced multiphase flow instrumentation and measurement techniques: Santa Barbara, CA, March 17 - 20, 1997, Nucl Eng Des **184**(2-3) 163-447 (Aug 1998), 4T1130
Evolution of a mixture of hot particles, steam, and water immersed in a water pool, Numer Heat Transfer A **34**(5) 463-478 (Oct 1998), 4A1136
Theory of Multicomponent Fluids (Springer-Verlag, New York, 1998) 5R35
Fluid dynamics based prediction of liquefaction induced lateral spreading, Comput Geotech **22**(3-4) 243-282 (1998), 5A587
Scaling for integral simulation of mixing in large, stratified volumes, Nucl Eng Des **186**(1-2) 213-224 (Nov 1998), 6A1532
In-flight behavior of steel particles during plasma spraying, J Mat Processing Tech **87**(1-3) 37-45 (Mar 1999), 7A1036

360I. Filtering

Specific features of the gas-liquid mixture filtration, Acta Mech **130**(1-2) 121-133 (1998), 2A1147
Factors influencing pressure drop through a dust cake during filtration, Aerosol Sci Tech **29**(4) 315-328 (Oct 1998), 3A1107
Modeling of backpulse filter cleaning: The small particle filter cake fragments, Aerosol Sci Tech **29**(3) 246-256 (Sep 1998), 3A1108
Filtration of fine particles by multiple liquid droplet and gas bubble systems, Aerosol Sci Tech **29**(5) 389-401 (Nov 1998), 4A1131
Parameters affecting the loading behavior and degradation of electrically active filter materials, Aerosol Sci Tech **29**(5) 419-432 (Nov 1998), 4A1132
Pilot-scale study of the design and operation parameters of a pulse-jet baghouse, Aerosol Sci Tech **29**(6) 510-524 (Dec 1998), 4A1133
Use of recursive algorithms in slow sand filter operation, Indian J Eng Mat Sci **5**(4) 236-239 (Aug 1998), 4A1134
Effects of orifice size and impinging angle on the characteristics of a like-doublet impinging-jet, Int J Turbo Jet Engines **15**(3) 155-164 (1998), 4A1139
Electrostatic separation of insulating and conductive particles from granular mixes, Particulate Sci Tech **16**(1) 25-42 (Jan-Mar 1998), 6A1238
Particle triboelectrification and its use in the electrostatic separation process, Particulate Sci Tech **16**(1) 55-68 (Jan-Mar 1998), 6A1239
Recent progress in electrostatic separation technology, Particulate Sci Tech **16**(1) 77-90 (Jan-Mar 1998), 6A1240
Research on a new type fibrous filter (Chinese), J Tsinghua Univ Sci Tech **38**(7) 82-85 (Jul 1998), 6A1241
Designing criteria for ceramic filters (Chinese), J Xi'an Jiaotong Univ **33**(1) 64-68 (1999), 7A1037
Numerical simulation of jets emitted into a 2D channel with self-induced oscillation: Active control by neural network observer, JSME Int J Ser B **41**(4) 840-846 (Nov 1998), 8T1096
Improved single droplet collection efficiency for the intermediate flow regime, Particulate Sci Tech **16**(3) 215-227 (Jul-Sep 1998), 10A1176
Penetration of polydisperse aerosols through screen diffusion battery, Particulate Sci Tech **16**(3) 229-238 (Jul-Sep 1998), 10A1177
Bifurcations and selection of equilibria in a simple cosymmetric model of filtrational convection, Chaos **9**(2) 403-412 (Jun 1999), 11A1191

360Y. Computational techniques

Computational Technologies for Fluid/Thermal/Structural/Chemical Systems with Industrial Applications - Volume I (ASME, New York, 1998) 1N24
Studies on the behavior of droplets and the air flow in a hollow-cone spray, J Fluids Eng **120**(3) 586-592 (Sep 1998), 1A1154
Equation for spherical-particle motion: Effect of Reynolds and acceleration numbers, J Fluid Mech **367** 221-253 (Jul 1998), 2A1138
Droplet-turbulence interactions in low-Mach-number homogeneous shear two-phase flows, J Fluid Mech **367** 163-203 (Jul 1998), 2A1141
Two-dimensional numerical method for the deformation of drops with surface tension, Int J Comput Fluid Dyn **10**(3) 225-240 (1998), 2A1142
Three-dimensional modeling, estimation, and fault diagnosis of spacecraft air contaminants, J Spacecraft Rockets **35**(4) 565-574 (Jul-Aug 1998), 2A1146
Diffusion-generated approach to multiphase motion, J Comput Phys **145**(1) 166-192 (Sep 1998), 2A1148
Three-dimensional computation of bubbles near a free surface, J Comput Phys **146**(1) 105-123 (Oct 1998), 3A1104
Use of high accuracy schemes to handle free surfaces in computing unsteady two-phase flows, Comput Methods Appl Mech Eng **162**(1-4) 271-286 (Aug 1998), 3A1109
Erosion of oil and gas industry choke valves using computational fluid dynamics and experiment, Int J Heat Fluid Flow **19**(6) 636-643 (Dec 1998), 4A1135
Evolution of a mixture of hot particles, steam, and water immersed in a water pool, Numer Heat Transfer A **34**(5) 463-478 (Oct 1998), 4A1136
Study of numerical diffusion in a discrete-sectional model and its application to aerosol dynamics simulation, Aerosol Sci Tech **29**(5) 359-378 (Nov 1998), 4A1137
Transient simulation of two-phase flows in pipes, Int J Multiphase Flow **24**(5) 739-755 (Aug 1998), 4A1138
Simulation of gas-solid particle flows over a wide range of concentration, Int J Numer Methods Fluids **28**(10) 1441-1479 (Dec 1998), 5A1008
Density perturbation method to study the eigenstructure of two-phase flow equation systems, J Comput Phys **147**(2) 463-484 (Dec 1998), 5T1022
Flow of a train of deformable fluid particles in a tube, Appl Math Mech **19**(7) 651-661 (Jul 1998), 5A1023
Thermal effects in the description of a multicomponent mixture using the density functional method, J Appl Math Mech **62**(3) 397-405 (1998), 5A1024
Thermophoretic deposition of small particles in a direct numerical simulation of turbulent channel flow, Int J Heat Mass Transfer **41**(24) 4167-4182 (Dec 1998), 5A1025
Turbulent flow past a bubble and an ellipsoid using shadow-image and PIV techniques, Int J Multiphase Flow **24**(8) 1383-1406 (Dec 1998), 6T1237
Adaptive level set approach for incompressible two-phase flows, J Comput Phys **148**(1) 81-124 (Jan 1999), 6A1242
Lagrangian vorticity method for two-phase particulate flows with two-way phase coupling, J Comput Phys **148**(1) 169-198 (Jan 1999), 6A1243
Modeling of axisymmetric two-phase dilute flows, Int J Comput Fluid Dyn **10**(4) 301-313 (1998), 6T1244
Direct numerical simulation of free-surface and interfacial flow, Annu Rev Fluid Mech **31** 567-603 (1999), 7T968
Rough finite volume scheme for modeling two-phase flow in a pipeline, Comput Fluids **28**(2) 213-241 (Feb 1999), 7T1026
Finite element method study of Eulerian droplets impingement models, Int J Numer Methods Fluids **29**(4) 429-449 (Feb 1999), 7A1029
Direct numerical simulations of bubbly flows - Part I: Low Reynolds number arrays, J Fluid Mech **377** 313-345 (Dec 1998), 7A1033
Interaction of an explosion bubble with a fixed rigid structure, Int J Numer Methods Fluids **29**(4) 389-396 (Feb 1999), 7A1034
New particle-locating method accounting for source distribution and particle-field interpolation for hybrid modeling of strongly coupled two-phase flows in arbitrary coordinates, Numer Heat Transfer B **35**(1) 41-63 (Jan-Feb 1998), 7A1038
Numerical simulation of multiphase flow in an elasto-plastic deforming oil reservoir (Chinese), Chinese J Comput Mech **16**(1) 24-31 (Feb 1999), 7T1039
Numerical simulation of NAPL flow in the subsurface, Comput Geosci **2**(3) 171-189 (Dec 1998), 7A1515
Numerical analysis of detailed flow structures of a bubble plume, JSME Int J Ser B **41**(3) 568-574 (Aug 1998), 8A1092
Correlative mapping method for measuring individual phase flow rates in air-water two-phase flow based on stochastic features, JSME Int J Ser B **41**(4) 863-870 (Nov 1998), 8T1097

Multiphase Godunov method for compressible multifluid and multiphase flows, J Comput Phys **150**(2) 425-467 (Apr 1999), 9T1152

Predictable model for characteristics of 1D solid-gas-liquid three-phase mixtures flow along a vertical pipeline with an abrupt enlargement in diameter, J Fluids Eng **121**(2) 330-342 (Jun 1999), 9A1161

Single and double optical probes in air-water two-phase flows: Real time signal processing and sensor performance, Int J Multiphase Flow **25**(2) 229-256 (Mar 1999), 9T1168

Determination of particle size distributions from acoustic wave propagation measurements, Phys Fluids **11**(5) 1065-1080 (May 1999), 9T1184

Numerical study of sedimentation by dripping instabilities in viscous fluids, Int J Multiphase Flow **25**(2) 307-320 (Mar 1999), 9A1185

Unsteady drag consideration in stochastic Eulerian-Lagrangian formulation of two-phase flow, AIAA J **37**(4) 434-442 (Apr 1999), 9A1186

Second-order Godunov method for wave problems in coupled solid-water-gas systems, J Comput Phys **151**(2) 790-815 (May 1999), 11A280

Deformation of a liquid drop adhering to a plane wall: Significance of the drop viscosity and the effect of an insoluble surfactant, Phys Fluids **11**(6) 1297-1308 (Jun 1999), 11A1177

Direct numerical simulations of bubbly flows - Part 2: Moderate Reynolds number arrays, J Fluid Mech **385** 325-358 (Apr 1999), 11A1180

Experimental and numerical comparisons of the break-up of a large bubble, Exp Fluids **26**(6) 524-534 (May 1999), 11A1183

Finite element method for two-phase immiscible flow, Numer Methods PDE **15**(4) 407-416 (Jul 1999), 11A1192

Novel Eulerian formulation for dilute gas-particle flows with obstruction, Numer Heat Transfer A **35**(7) 735-756 (May 1999), 11A1193

Imaging of particle shear migration with electrical impedance tomography, Phys Fluids **11**(8) 1982-1994 (Aug 1999), 12A1049

Averaged and time-dependent characteristics of the motion of an elongated bubble in a vertical pipe, Int J Multiphase Flow **25**(5) 795-812 (Aug 1999), 12T1123

Experimental observations of the interaction of a laser generated cavitation bubble with a flexible membrane, Phys Fluids **11**(8) 2437-2439 (Aug 1999), 12A1124

Numerical study of the oscillations of a nonspherical bubble in an inviscid, incompressible liquid - Part I: Free oscillations from nonequilibrium initial conditions, Int J Multiphase Flow **25**(5) 887-919 (Aug 1999), 12T1126

Accurate scale up of two phase flow using renormalization and nonuniform coarsening, Comput Geosci **3**(1) 69-87 (Apr 1999), 12A1132

Calculation of particle trajectories in complex meshes, Numer Heat Transfer B **35**(4) 431-437 (Jun 1999), 12A1133

Direct numerical simulations of 3D bubbly flows, Phys Fluids **11**(8) 1967-1969 (Aug 1999), 12T1134

Distributed Lagrange multiplier-fictitious domain method for particulate flows, Int J Multiphase Flow **25**(5) 755-794 (Aug 1999), 12T1135

Dynamic network model for two-phase immiscible flow, Comput Geosci **3**(1) 1-22 (Apr 1999), 12A1136

Solving the Buckley-Leverett equation with gravity in a heterogeneous porous medium, Comput Geosci **3**(1) 23-48 (Apr 1999), 12A1137

Steady state behavior of boiling channels: A comprehensive analysis using singularity theory, Nucl Eng Des **190**(3) 303-316 (Jun 1999), 12A1138

Volume-of-fluid interface tracking with smoothed surface stress methods for 3D flows, J Comput Phys **152**(2) 423-456 (Jul 1999), 12A1139

360Z. Experimental techniques

Two-phase flow from a stratified region through a small side branch, J Fluids Eng **120**(3) 605-612 (Sep 1998), 1A1144

Tomographic imaging of the phase distribution in two-phase slug flow, Int J Multiphase Flow **24**(4) 617-634 (Jun 1998), 1T1146

Drop size and velocity measurements in an electrostatically produced hydrocarbon spray, J Fluids Eng **120**(3) 580-585 (Sep 1998), 1A1152

Studies on the behavior of droplets and the air flow in a hollow-cone spray, J Fluids Eng **120**(3) 586-592 (Sep 1998), 1A1154

Effects of design parameters on air-water two-phase flow performance of a radial-flow pump, Appl Mech Eng **3**(1) 89-109 (1998), 1A1155

Optimization of optical parameters for particle sizing in multiphase flows, Opt Lasers Eng **30**(1) 3-15 (Jul 1998), 2A1149

Visual experimental investigation of gas-liquid flow distribution characteristics of horizontal parallel tube system (Chinese), J Xi'an Jiaotong Univ **32**(7) 63-67 (1998), 3A1110

Bubmac method: A numerical method bubble dynamics in vortex core, J Hydrodyn **10**(3) 1-16 (1998), 4T1127

Effects of orifice size and impinging angle on the characteristics of a like-doublet impinging-jet, Int J Turbo Jet Engines **15**(3) 155-164 (1998), 4A1139

Impulsive motion of a liquid resulting from a particle collision, J Fluid Mech **375** 345-361 (Nov 1998), 5A1005

Centrifugal-bubbling apparatuses: Design, investigations, use, J Enhanced Heat Transfer **5**(3) 201-216 (1998), 5A1026

Precision laser-based concentration and refractive index measurement of liquids, Microscale Thermophys Eng **2**(4) 261-272 (Oct-Dec 1998), 5A1027

Dynamics of dual-particles settling under gravity, Int J Multiphase Flow **24**(8) 1343-1358 (Dec 1998), 6A1225

Monofiber optical probes for gas detection and gas velocity measurements: Optimized sensing tips, Int J Multiphase Flow **24**(8) 1295-1315 (Dec 1998), 6T1229

Novel centrifugal gas-liquid separator for catching intermittent flows, Int J Multiphase Flow **24**(7) 1057-1078 (Nov 1998), 6A1230

Direct numerical simulation of droplet collisions in a turbulent channel flow - Part II: Collision rates, Int J Multiphase Flow **24**(7) 1105-1138 (Nov 1998), 6A1233

Light extinction technique for void fraction measurements in bubbly flow, Exp Fluids **26**(1-2) 16-26 (Jan 1999), 6A1234

Method to calculate particle velocity in room airflow, J Tsinghua Univ Sci Tech **38**(12) 19-22 (Dec 1998), 6A1245

Monofiber optical probes for gas detection and gas velocity measurements: Conical probes, Int J Multiphase Flow **24**(8) 1265-1294 (Dec 1998), 6T1246

Measurement in the wake region of two bubbles in close proximity by combined shadow-image and PIV techniques, J Fluids Eng **121**(1) 191-197 (Mar 1999), 7A1040

Nuclear magnetic resonance as a tool to study flow, Annu Rev Fluid Mech **31** 95-123 (1999), 7A1041

Upper bound on random buffeting forces caused by two-phase flows across tubes, J Fluids Struct **12**(8) 1005-1023 (Nov 1998), 8A280

New electrode-wire CT scanner for void distribution measurements, JSME Int J Ser B **42**(1) 16-21 (Feb 1999), 8A1098

Entrainment of fine particles from surfaces by gas jets impinging at normal incidence, Exp Fluids **26**(4) 324-334 (Mar 1999), 9A1159

Viscous resuspension in a bidensity suspension, Int J Multiphase Flow **25**(1) 1-14 (Feb 1999), 9T1162

Slip velocity measurements in an upward bubbly flow by combined LDA and electrodiffusional techniques, Exp Fluids **26**(4) 305-314 (Mar 1999), 9A1181

Post-treatment for phase detection probes in non-uniform two-phase flows, Int J Multiphase Flow **25**(2) 201-228 (Mar 1999), 9T1187

Sensitivity study on double-sensor conductivity probe for the measurement of interfacial area concentration in bubbly flow, Int J Multiphase Flow **25**(1) 155-173 (Feb 1999), 9T1188

Gas-liquid two-phase flow regimes in rectangular channels with mini-micro gaps, Int J Multiphase Flow **25**(3) 411-432 (Apr 1999), 10T1175

Flow regime identification in microgravity two-phase flows using void fraction signals, Int J Multiphase Flow **25**(3) 433-457 (Apr 1999), 10A1178

Three-dimensional volume tracking model of droplet impact, Phys Fluids **11**(6) 1406-1417 (Jun 1999), 11A1026

Experimental and numerical comparisons of the break-up of a large bubble, Exp Fluids **26**(6) 524-534 (May 1999), 11A1183

Capacitive method as an industrial experimental technique of analysis of the cavitation and two-phase flows, Proc Inst Mech Eng E **213**(E1) 57-59 (1999), 11A1194

362. WALL LAYERS (INCL BOUNDARY LAYERS)

362B. Higher order theory

Bracing of structures, and the special theory of relativity, Int J Solids Struct **35**(33) 4369-4379 (Nov 1998), 1A1156

Inviscid separation in steady planar flows, Fluid Dyn Res **23**(4) 235-266 (Oct 1998), 2A1155

362C. Laminar layers

Stability of a dusty-gas laminar boundary layer on a flat plate, J Fluid Mech **365** 137-170 (Jun 1998), 1A1159

Recent Advances in Boundary Layer Theory (Springer-Verlag, Wien, 1998) 2N27

Initial-value problem for fully 3D inflectional boundary layer flows, Theor Comput Fluid Dyn **12**(3) 131-148 (Nov 1998), 5A1028

Streamwise absolute instability of a 3D boundary layer at high Reynolds numbers, J Fluid Mech **373** 111-153 (Oct 1998), 5A1029

Experiments on localized disturbances in a flat plate boundary layer - Part 1: The receptivity and evolution of a localized free stream disturbance, Eur J Mech B **17**(6) 823-846 (Nov-Dec 1998), 5A1030

Experiments on localized disturbances in a flat plate boundary layer - Part 2: Interaction between localized disturbances and TS-waves, Eur J Mech B **17**(6) 847-873 (Nov-Dec 1998), 5A1031

Application of the reduced Navier-Stokes methodology to flow stability of Falkner-Skan class flows, Comput Fluids **28**(3) 307-321 (Mar 1999), 7A1052

Levitation of a drop over a film flow, J Fluid Mech **380** 297-307 (Feb 1999), 8A1088

Effect of free-stream turbulence and other vortical disturbances on a laminar boundary layer, J Fluid Mech **380** 169-203 (Feb 1999), 8A1099

Foam control using a fluidized bed of hydrophobic particles, Int J Multiphase Flow **25**(1) 63-85 (Feb 1999), 9A1483

Problems with discontinuous boundary conditions describing laminar flows at high Reynolds numbers, J Appl Math Mech **63**(1) 31-39 (1999), 12A1140

362D. Turbulent layers

Recent Advances in Boundary Layer Theory (Springer-Verlag, Wien, 1998) 2N27

Linear law of the wall for fully developed turbulent channel flow, Exp Fluids **25**(2) 165-170 (Jul 1998), 2A1150

Vortex shedding from a hemisphere in a turbulent boundary layer, Theor Comput Fluid Dyn **12**(1) 1-28 (Jul 1998), 2A1151

Morkovin hypothesis and the modeling of wall-bounded compressible turbulent flows, AIAA J **36**(9) 1583-1592 (Sep 1998), 2A1152

Selected papers from the 11th Symposium on Turbulent Shear Flows, Grenoble, France, September 8-10, 1997, Int J Heat Fluid Flow **19**(5) 393-581 (Oct 1998), 2T1201

Effect of a short roughness strip on a turbulent boundary layer, Appl Sci Res **59**(1) 61-75 (1997), 3A1111

Secondary instability of cross-flow vortices in Falkner-Skan-Cooke boundary layers, J Fluid Mech **368** 339-357 (Aug 1998), 3A1112

Spatial structure of negative \partiau/∂y in a low R_θ turbulent boundary layer, J Fluids Eng **120**(4) 772-777 (Dec 1998), 3A1113

Turbulence measurements of a longitudinal vortex generated by an inclined jet in a turbulent boundary layer, J Fluids Eng **120**(4) 765-771 (Dec 1998), 3A1114

Asymptotic description of the attached, turbulent, oscillatory boundary layer, J Eng Math **34**(3) 335-357 (Oct 1998), 4A1140

Attenuating artificial dissipation in the computation of Navier-Stokes turbulent boundary layers, J Sci Comput **13**(2) 151-172 (Jun 1998), 4A1141

Direct resonance analysis and modeling for a turbulent boundary layer over a corrugated surface, Acta Mech **131**(3-4) 225-233 (1998), 4A1142

Turbulence measurements in a 3D boundary layer in supersonic flow, J Fluid Mech **372** 1-23 (Oct 1998), 4A1143

Simple experimental equation for the bursting cycle, Phys Fluids **10**(11) 3023-3026 (Nov 1998), 4T1208

Analytical and numerical study of the nonlinear interaction between a point vortex and a wall-bounded shear layer, J Fluid Mech **373** 155-192 (Oct 1998), 5A938

Boundary layer on a slightly yawed cylinder, Exp Fluids **25**(5-6) 487-490 (Oct 1998), 5A1036

Boundary layer development after a separated region, J Fluid Mech **374** 91-116 (Nov 1998), 5A1074

Effect of biofilms on turbulent boundary layers, J Fluids Eng **121**(1) 44-51 (Mar 1999), 7A1042

Large scale motions in a manipulated turbulent boundary layer, Int J Heat Mass Transfer **42**(9) 1645-1664 (May 1999), 7A1043

Modeling turbulent wall flows subjected to strong pressure variations, J Fluids Eng **121**(1) 57-64 (Mar 1999), 7A1044

Relation between fronts and high-shear layers in wall turbulence, Flow Turbulence Combust **60**(1) 87-103 (1998), 7A1093

Application of a second-moment closure model to simulate the turbulent dispersion from an elevated line source, Heat and Mass Transfer Warme **34**(5) 429-436 (Feb 1999), 7A1230

Effect of Reynolds number on boundary layer turbulence, Exp Thermal Fluid Sci **18**(4) 341-346 (Dec 1998), 8T1100

Effect of the Reynolds number on the Reynolds stresses and vorticity in a turbulent far-wake, Exp Thermal Fluid Sci **18**(4) 291-298 (Dec 1998), 8T1101

Effects of periodic wake passing upon flat-plate boundary layers experiencing favorable and adverse pressure gradients, J Turbomachinery **121**(2) 333-340 (Apr 1999), 8A1102

Drag characteristics of a turbulent boundary layer over a flat plate with transverse square grooves, Exp Fluids **26**(3) 273-275 (Feb 1999), 8A1116

Mechanism of drag reduction of near-wall turbulence by wall oscillation, JSME Int J Ser B **40**(4) 558-566 (Nov 1997), 8T1118

Probability density function in the log-law region of low Reynolds number turbulent boundary layer, Phys Fluids **11**(3) 647-658 (Mar 1999), 8A1185

Outer-flow effects on turbulent boundary layer wall pressure fluctuations, J Acoust Soc Am **105**(4) 2097-2106 (Apr 1999), 9A1189

Comparison of flying-hot-wire and stationary-hot-wire measurements of flow over a backward-facing step, J Fluids Eng **121**(2) 441-445 (Jun 1999), 9A1245

Foam control using a fluidized bed of hydrophobic particles, Int J Multiphase Flow **25**(1) 63-85 (Feb 1999), 9A1483

Mach- and Reynolds-number dependence of the flat-plate turbulent boundary layer wall-pressure spectrum, Theor Comput Fluid Dyn **13**(1) 33-56 (Apr 1999), 10A1179

New approach for the study of turbulent boundary layers with blowing, Int J Heat Mass Transfer **42**(15) 2905-2920 (Aug 1999), 10A1180

Drag reduction by coupled systems: Microbubble injection with homogeneous polymer and surfactant solutions, Exp Fluids **26**(5) 397-403 (Apr 1999), 10A1187

Large-eddy simulation of flow over wavy surfaces, J Fluid Mech **383** 75-112 (Mar 1999), 10A1224

Analytical near wall solution of the k-ϵ model for transpired boundary layer flows, Int J Heat Mass Transfer **42**(16) 3085-3096 (Aug 1999), 11A1195

Image processing and velocity measurements in the turbulent boundary layer of a laboratory shallow channel, J Hydrology and Hydromech **47**(2) 81-92 (1999), 11T1196

Modeling shock and boundary layer interaction with nonlinear eddy-viscosity closures, Flow Turbulence Combust **60**(3) 257-282 (1998), 11A1199

Improved diameter scaling correlation for turbulent flow of drag-reducing polymer solutions, J Non-Newtonian Fluid Mech **84**(2-3) 131-148 (Aug 1999), 12A1141

Turbulent near-wake development behind a flat plate, Aerospace Sci Tech **3**(2) 61-70 (Feb 1999), 12A1142

Measurements of mean and fluctuating wall shear stress beneath spanwise-invariant separation bubbles, Exp Fluids **27**(1) 53-59 (Jun 1999), 12A1144

Improved quantification of the drag reduction phenomenon through turbulence reduction parameters, J Non-Newtonian Fluid Mech **84**(2-3) 123-130 (Aug 1999), 12A1145

362E. Transition and relaminarization

Boundary-layer control by electric fields, J Fluids Eng **120**(3) 626-629 (Sep 1998), 1A1157

Optimal and robust control and estimation of linear paths to transition, J Fluid Mech **365** 305-349 (Jun 1998), 1A1158

High-order finite-difference schemes for numerical simulation of hypersonic boundary-layer transition, J Comput Phys **144**(2) 662-709 (Aug 1998), 2T1120

Boundary layer receptivity to free-stream sound on parabolic bodies, J Fluid Mech **368** 1-26 (Aug 1998), 3A1115

Robust high-resolution split-type compact FD scheme for spatial direct numerical simulation of boundary-layer transition, Appl Sci Res **59**(4) 353-377 (1997), 4A48

Experimental evidence of streamwise vortices as finite amplitude solutions in transitional plane Couette flow, Phys Fluids **10**(10) 2597-2607 (Oct 1998), 4A1036

Direct simulation of transition in an oscillatory boundary layer, J Fluid Mech **371** 207-232 (Sep 1998), 4A1146

Two- and three-dimensional large-eddy simulations of a transitional separation bubble, Phys Fluids **10**(11) 2932-2940 (Nov 1998), 4T1150

Influence of rotational and vibrational energy relaxation on boundary-layer stability, J Fluid Mech **372** 93-118 (Oct 1998), 4A1189

Transition closure model for predicting transition onset, J Aircraft **35**(5) 769-775 (Sep-Oct 1998), 4A1266

Experiments on localized disturbances in a flat plate boundary layer - Part 1: The receptivity and evolution of a localized free stream disturbance, Eur J Mech B **17**(6) 823-846 (Nov-Dec 1998), 5A1030

Experiments on localized disturbances in a flat plate boundary layer - Part 2: Interaction between localized disturbances and TS-waves, Eur J Mech B **17**(6) 847-873 (Nov-Dec 1998), 5A1031

Intermittent flow and thermal structures of accelerating transitional boundary layers - Part 1: Mean quantities, J Turbomachinery **121**(1) 98-105 (Jan 1999), 5A1032

Intermittent flow and thermal structures of accelerating transitional boundary layers - Part 2: Fluctuation quantities, J Turbomachinery **121**(1) 106-112 (Jan 1999), 5A1033
Laminarization and re-transition of a turbulent boundary layer subjected to favorable pressure gradient, Exp Fluids **25**(5-6) 491-502 (Oct 1998), 5A1034
Modeling unsteady boundary layer transition on a curved plate under periodic unsteady flow conditions: Aerodynamic and heat transfer investigations, J Turbomachinery **121**(1) 88-97 (Jan 1999), 5A1035
Short-scale break-up in unsteady interactive layers: Local development of normal pressure gradients and vortex wind-up, J Fluid Mech **374** 335-378 (Nov 1998), 5A1038
Direct numerical simulation of droplet collisions in a turbulent channel flow - Part I: Collision algorithm, Int J Multiphase Flow **24**(7) 1079-1103 (Nov 1998), 6A1247
Optimal disturbances and bypass transition in boundary layers, Phys Fluids **11**(1) 134-150 (Jan 1999), 6A1248
Smooth leading edge transition in hypersonic flow, Exp Fluids **26**(1-2) 169-176 (Jan 1999), 6A1249
Active control of wave instabilities in 3D compressible flows, Theor Comput Fluid Dyn **12**(4) 195-217 (1998), 6A1263
Roughness-induced receptivity to crossflow vortices on a swept wing, Phys Fluids **11**(2) 433-438 (Feb 1999), 7A1045
Effect of periodic unsteady flow on aerodynamics and heat transfer on a curved surface, J Heat Transfer **121**(1) 22-33 (Feb 1999), 7A1255
Effect of free-stream turbulence and other vortical disturbances on a laminar boundary layer, J Fluid Mech **380** 169-203 (Feb 1999), 8A1099
Artificial control of the 3D process of T-S waves in boundary-layer transition, JSME Int J Ser B **40**(4) 536-541 (Nov 1997), 8T1103
Large-eddy simulation of boundary-layer transition on a swept wedge, J Fluid Mech **381** 357-380 (Feb 1999), 8A1104
Local boundary-layer receptivity to a convected free-stream disturbance, J Fluid Mech **378** 291-317 (Jan 1999), 8A1105
Physical model for bypass transition, Int J Heat Fluid Flow **20**(2) 95-104 (Apr 1999), 8A1106
Receptivity to surface roughness near a swept leading edge, J Fluid Mech **380** 141-168 (Feb 1999), 8A1107
Transient period for boundary layer disturbances, J Fluid Mech **381** 89-119 (Feb 1999), 8A1108
Boundary-layer instability noise on aerofoils, J Fluid Mech **382** 27-61 (Mar 1999), 9A1213
Basic experiments on transition in 3D boundary layers dominated by crossflow instability, Prog Aerospace Sci **35**(4) 363-412 (May 1999), 10A1181
Optimum suction distribution for transition control, Theor Comput Fluid Dyn **13**(1) 1-19 (Apr 1999), 10A1182
Absolute instability of the attachment-line and swept-Hiemenz boundary layers, Theor Comput Fluid Dyn **13**(1) 57-75 (Apr 1999), 10A1205
Prediction model for separated-flow transition, J Turbomachinery **121**(3) 594-602 (Jul 1999), 11A1197
Theory for predicting the turbulent-spot production rate, J Turbomachinery **121**(3) 588-593 (Jul 1999), 11A1198

362F. Compressible and hypersonic layers

Stability of a dusty-gas laminar boundary layer on a flat plate, J Fluid Mech **365** 137-170 (Jun 1998), 1A1159
Morkovin hypothesis and the modeling of wall-bounded compressible turbulent flows, AIAA J **36**(9) 1583-1592 (Sep 1998), 2A1152
Numerical study of hypersonic reacting boundary layer transition on cones, Phys Fluids **10**(10) 2676-2685 (Oct 1998), 4A1087
Turbulence measurements in a 3D boundary layer in supersonic flow, J Fluid Mech **372** 1-23 (Oct 1998), 4A1143
Effect of heat transfer on compressible boundary layer flow over a circular cylinder, Acta Mech **131**(3-4) 267-272 (1998), 4A1144
Planar visualizations of large-scale turbulent structures in axisymmetric supersonic separated flows, Phys Fluids **11**(1) 201-213 (Jan 1999), 6A1213
Smooth leading edge transition in hypersonic flow, Exp Fluids **26**(1-2) 169-176 (Jan 1999), 6A1249
Active control of wave instabilities in 3D compressible flows, Theor Comput Fluid Dyn **12**(4) 195-217 (1998), 6A1263
Flight data for boundary-layer transition at hypersonic and supersonic speeds, J Spacecraft Rockets **36**(1) 8-20 (Jan-Feb 1999), 7A1046
Long-time impulse response of compressible swept-wing boundary layers, J Fluid Mech **379** 333-350 (Jan 1999), 8A1109
Recovery of distorted turbulent boundary layer and shock-shock interaction through recovering boundary layer, JSME Int J Ser B **40**(4) 542-549 (Nov 1997), 8T1110
Effect of combined particle-phase diffusivity and viscosity on the compressible boundary layer of a particulate suspension over a flat plate, J Heat Transfer **121**(2) 420-429 (May 1999), 9A1365
Mach- and Reynolds-number dependence of the flat-plate turbulent boundary layer wall-pressure spectrum, Theor Comput Fluid Dyn **13**(1) 33-56 (Apr 1999), 10A1179
Unsteady compressible flow in the stagnation region of 2D and axisymmetric bodies, Acta Mech **134**(3-4) 135-145 (1999), 10A1184

362G. Shock wave boundary layer interaction

Assessment of various low-Reynolds number turbulence models in shock-boundary layer interaction, Comput Methods Appl Mech Eng **160**(1-2) 155-174 (Jul 1998), 1A1160
Computation of internal high-speed separated flow with modified B-L and J-K models, Int J Numer Methods Fluids **28**(7) 1053-1071 (Nov 1998), 4A1145
Recovery of distorted turbulent boundary layer and shock-shock interaction through recovering boundary layer, JSME Int J Ser B **40**(4) 542-549 (Nov 1997), 8T1110
Computation of shock and boundary-layer interactions in bump channels with transport-type turbulence models, Comput Methods Appl Mech Eng **173**(1-2) 55-69 (Apr 1999), 10A1183
Modeling shock and boundary layer interaction with nonlinear eddy-viscosity closures, Flow Turbulence Combust **60**(3) 257-282 (1998), 11A1199
Numerical simulations of nozzle starting process, Shock Waves **9**(2) 73-79 (Apr 1999), 12T237

362H. Three-dimensional layers

Streamwise absolute instability of a 3D boundary layer at high Reynolds numbers, J Fluid Mech **373** 111-153 (Oct 1998), 5A1029
Boundary layer on a slightly yawed cylinder, Exp Fluids **25**(5-6) 487-490 (Oct 1998), 5A1036
Computation of 3D turbulent boundary layers using the V2F model, Flow Turbulence Combust **60**(1) 19-46 (1998), 7T1047
Basic experiments on transition in 3D boundary layers dominated by crossflow instability, Prog Aerospace Sci **35**(4) 363-412 (May 1999), 10A1181

362I. Unsteady layers

Asymptotic Theory of Separated Flows (Cambridge UP, New York, 1998) 2R18
Critical evaluation of the classical k-ϵ model and wall-laws for unsteady flows over bluff bodies, Int J Comput Fluid Dyn **10**(1) 1-11 (1998), 2A1095
Effect of smooth deceleration of the external stream on an aligned flat-plate boundary layer, Quart J Mech Appl Math **51**(3) 339-381 (Aug 1998), 2A1153
Measurement of unsteady boundary layer developed on an oscillating airfoil using multiple hot-film sensors, Exp Fluids **25**(2) 108-117 (Jul 1998), 2A1154
Asymptotic description of the attached, turbulent, oscillatory boundary layer, J Eng Math **34**(3) 335-357 (Oct 1998), 4A1140
Direct simulation of transition in an oscillatory boundary layer, J Fluid Mech **371** 207-232 (Sep 1998), 4A1146
Effect of large injection rates on unsteady mixed convection at a 3D stagnation point, Int J Non-Linear Mech **34**(1) 85-103 (Jan 1999), 4A1154
Transition of unsteady velocity profiles with reverse flow, J Fluid Mech **374** 251-283 (Nov 1998), 5A947
Improved methods for thin, surface boundary layer investigations, Exp Fluids **25**(5-6) 431-444 (Oct 1998), 5T1037
Short-scale break-up in unsteady interactive layers: Local development of normal pressure gradients and vortex wind-up, J Fluid Mech **374** 335-378 (Nov 1998), 5A1038
Transient discharge of entrained air from a wound roll, J Appl Mech **65**(4) 804-810 (Dec 1998), 5A1039
Unsteady separation past moving surfaces, J Fluid Mech **375** 1-38 (Nov 1998), 5A1040
Unsteady compressible flow in the stagnation region of 2D and axisymmetric bodies, Acta Mech **134**(3-4) 135-145 (1999), 10A1184
Reduction of turbulent wall friction through spanwise wall oscillations, J Fluid Mech **383** 175-195 (Mar 1999), 10A1188
Vortex-grid method for Prandtl's equations, SIAM J Sci Comput **20**(4) 1229-1251 (Feb 1999), 12T1147

362J. Thermal boundary layers

Effect of heat transfer on compressible boundary layer flow over a circular cylinder, Acta Mech **131**(3-4) 267-272 (1998), 4A1144
Flow and heat transfer in a second grade fluid over a stretching sheet, Int J Non-Linear Mech **34**(6) 1031-1036 (Nov 1999), 12A1143

362K. Non-Newtonian layers

Group classification of a non-Newtonian fluid model using classical approach and equivalence transformations, Int J Non-Linear Mech **34**(2) 341-346 (Mar 1999), 4A1147
Secondary flows and developing, turbulent boundary layers in a rotating duct, J Fluid Mech **373** 1-32 (Oct 1998), 5A1041
Closed-form solutions for a nonsimilar viscoelastic boundary layer flow and heat transfer, Indian J Eng Mat Sci **5**(5) 339-342 (Oct 1998), 7A1048
Exact solutions of boundary layer equations of a special non-Newtonian fluid over a stretching sheet, Mech Res Commun **26**(2) 171-175 (Mar-Apr 1999), 11T1200
Drag reduction of a non-Newtonian fluid by fluid injection on a moving wall, Arch Appl Mech **69**(3) 215-225 (Apr 1999), 11A1201

362M. Separation and reattachment

Asymptotic Theory of Separated Flows (Cambridge UP, New York, 1998) 2R18
Scour at Marine Structures (Telford, UK, 1998) 2R20
Inviscid separation in steady planar flows, Fluid Dyn Res **23**(4) 235-266 (Oct 1998), 2A1155
Separation and instabilities in the viscous flow over airfoil leading edges, Comput Fluids **27**(8) 903-921 (Nov 1998), 2A1156
Asymptotic description of the attached, turbulent, oscillatory boundary layer, J Eng Math **34**(3) 335-357 (Oct 1998), 4A1140
Experimental and numerical investigation of 2D backward-facing step flow, J Fluids Struct **12**(6) 703-716 (Aug 1998), 4A1148
Spatial instability of planar channel flow with fluid injection through porous walls, Phys Fluids **10**(10) 2558-2568 (Oct 1998), 4A1149
Two- and three-dimensional large-eddy simulations of a transitional separation bubble, Phys Fluids **10**(11) 2932-2940 (Nov 1998), 4T1150
Analysis of 3D backward-facing step incompressible flows via a local average-based numerical procedure, Int J Numer Methods Fluids **28**(7) 1073-1091 (Nov 1998), 4A1153
Direct numerical simulation of a separated turbulent boundary layer, J Fluid Mech **370** 175-201 (Sep 1998), 4A1207
Unsteady separation past moving surfaces, J Fluid Mech **375** 1-38 (Nov 1998), 5A1040
Direct numerical simulation of a separated turbulent boundary layer, J Fluid Mech **374** 379-405 (Nov 1998), 5A1042
Planar visualizations of large-scale turbulent structures in axisymmetric supersonic separated flows, Phys Fluids **11**(1) 201-213 (Jan 1999), 6A1213
Fluid-solid separation criterion based on time rate change of kinetic energy density (Chinese), J Xi'an Jiaotong Univ **33**(1) 1-9 (1999), 7A1049
Structure of wall-pressure fluctuations in turbulent boundary layers with adverse pressure gradient and separation, J Fluid Mech **377** 347-373 (Dec 1998), 7A1050
Large vortex formation-mechanism behind wedge under several separation conditions, JSME Int J Ser B **41**(4) 788-795 (Nov 1998), 8A1111
Effect of spanwise-varying local forcing on turbulent separated flow over a backward-facing step, Exp Fluids **26**(5) 437-440 (Apr 1999), 10A1185
Measurements of mean and fluctuating wall shear stress beneath spanwise-invariant separation bubbles, Exp Fluids **27**(1) 53-59 (Jun 1999), 12A1144

362N. Suction and injection

Measurement and analysis of the flowfields induced by suction perforations, AIAA J **36**(9) 1553-1561 (Sep 1998), 2A1157
Thermodynamical modeling of boundary layer flow with suction and injection, J Appl Mech **65**(3) 764-768 (Sep 1998), 2A1158
Spatial instability of planar channel flow with fluid injection through porous walls, Phys Fluids **10**(10) 2558-2568 (Oct 1998), 4A1149
Blowing-suction effect on non-Darcy forced convection flow about a flat plate with variable wall temperature in porous media, Acta Mech **131**(3-4) 255-265 (1998), 4A1151
Flow of a Johnson-Segalman fluid between rotating co-axial cylinders with and without suction, Int J Non-Linear Mech **34**(1) 63-70 (Jan 1999), 4A1152
Lift enhancement of a wing-strake configuration using pneumatic blowing, J Aircraft **35**(6) 984-985 (Nov-Dec 1998), 6T1300
Pipe flow with radial inflow: Experimental and modeling work, J Fluids Eng **121**(1) 106-111 (Mar 1999), 7A1059
Analysis of energy transfers of a sheared flow generated by wall injection, Exp Fluids **26**(3) 222-232 (Feb 1999), 8A1112
Streamwise vortices in the outer layer of wall jets with convex curvature, AIAA J **37**(2) 281-283 (Feb 1999), 8T1113
Three-dimensional temporal instability of compressible gas jets injected in liquids, AIAA J **37**(2) 202-207 (Feb 1999), 8A1114
Optimum suction distribution for transition control, Theor Comput Fluid Dyn **13**(1) 1-19 (Apr 1999), 10A1182
Control of the fastest growing Gortler vortex, Theor Comput Fluid Dyn **13**(1) 21-31 (Apr 1999), 10A1186
Drag reduction of a non-Newtonian fluid by fluid injection on a moving wall, Arch Appl Mech **69**(3) 215-225 (Apr 1999), 11A1201
Effect of endwall boundary layer suction on secondary flow of turbine stator cascade (Chinese), J Xi'an Jiaotong Univ **33**(5) 49-53 (1999), 11A1319

362O. Surface roughness

Vortex shedding from a hemisphere in a turbulent boundary layer, Theor Comput Fluid Dyn **12**(1) 1-28 (Jul 1998), 2A1151
Boundary layer over a slotted plate, Eur J Mech B **17**(3) 331-355 (May-Jun 1998), 2A1159
Contribution to the physical analysis of separated flows past 3D humps, Eur J Mech B **17**(3) 307-329 (May-Jun 1998), 2A1160
Effect of a short roughness strip on a turbulent boundary layer, Appl Sci Res **59**(1) 61-75 (1997), 3A1111
Indirect BEM for shear flow over prolate and oblate hemispheroidal protuberances on plane walls, Int J Numer Methods Fluids **28**(6) 961-981 (Oct 1998), 4A59
Direct resonance analysis and modeling for a turbulent boundary layer over a corrugated surface, Acta Mech **131**(3-4) 225-233 (1998), 4A1142
Linear stability of 2D steady flow in wavy-walled channels, Fluid Dyn Res **23**(6) 349-370 (Dec 1998), 4A1190
Effective boundary conditions for laminar flows over periodic rough boundaries, J Comput Phys **147**(1) 187-218 (Nov 1998), 5A971
Numerical investigation of the effect on airfoil lift-drag ratio of locally enhanced surface roughness, Wind Eng **22**(3) 143-148 (1998), 5A1043
Roughness-induced receptivity to crossflow vortices on a swept wing, Phys Fluids **11**(2) 433-438 (Feb 1999), 7A1045
Receptivity to surface roughness near a swept leading edge, J Fluid Mech **380** 141-168 (Feb 1999), 8A1107
Stability characteristics of wavy walled channel flows, Phys Fluids **11**(3) 579-589 (Mar 1999), 8A1159
Large- and small-scale vortical motions in a shear layer perturbed by tabs, J Fluid Mech **382** 307-329 (Mar 1999), 9A1229
Natural low-frequency riblets, Flow Turbulence Combust **60**(3) 235-255 (1998), 11T1202

362P. Rotating fluids or surfaces

Baroclinic, variable eddy viscosity Ekman layer, Boundary-Layer Meteorol **87**(3) 363-380 (Jun 1998), 2T1161
Conically similar swirling flows at high Reynolds numbers, Quart J Mech Appl Math **51**(PT1) 1-53 (Feb 1999), 8A1019
Description of the boundary layers of steady flows between coaxial disks in rotor-stator configuration (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 215-220 (Feb-Mar 1999), 9A1190

362Q. Heat addition and cooling

Mixing length model for strongly heated subsonic turbulent boundary layers, Int J Heat Mass Transfer **41**(22) 3373-3385 (Nov 1998), 3A1231
Intermittent flow and thermal structures of accelerating transitional boundary layers - Part 1: Mean quantities, J Turbomachinery **121**(1) 98-105 (Jan 1999), 5A1032
Intermittent flow and thermal structures of accelerating transitional boundary layers - Part 2: Fluctuation quantities, J Turbomachinery **121**(1) 106-112 (Jan 1999), 5A1033

Modeling unsteady boundary layer transition on a curved plate under periodic unsteady flow conditions: Aerodynamic and heat transfer investigations, J Turbomachinery **121**(1) 88-97 (Jan 1999), 5A1035

Comparison of low Reynolds number $k\ \varepsilon$ models in simulation of momentum and heat transport under high free stream turbulence, Int J Heat Mass Transfer **42**(4) 723-737 (Feb 1999), 5A1172

Heat transfer in a 3D turbulent boundary layer with longitudinal vortices, Int J Heat Mass Transfer **42**(8) 1521-1534 (Apr 1999), 7A1210

Prediction of heat transfer in turbulent, transpired boundary layers, J Heat Transfer **121**(1) 186-190 (Feb 1999), 7A1212

362S. Drag reduction

Measurement and analysis of the flowfields induced by suction perforations, AIAA J **36**(9) 1553-1561 (Sep 1998), 2A1157

Drag of a sphere in dilute polymer solutions in high Reynolds number range, Rheol Acta **37**(4) 328-335 (Aug 1998), 3A1116

Fluid dynamic drag of an axially symmetrical bluff body consisting of a plane surface and a spherical surface, J Fluids Eng **120**(4) 851-853 (Dec 1998), 3A1117

Heterogeneous drag reduction concepts and consequences, J Fluids Eng **120**(4) 818-823 (Dec 1998), 3A1118

Direct numerical simulation of viscoelastic turbulent channel flow exhibiting drag reduction: Effect of the variation of rheological parameters, J Non-Newtonian Fluid Mech **79**(2-3) 433-468 (Nov 1998), 4A1212

Study of correlation coefficients of fluctuating turbulent velocities under drag-reducing conditions (Chinese), J Dalian Univ Tech **38**(5) 525-528 (Sep 1998), 4A1223

Drag reduction in the turbulent pipe flow of polymers, J Non-Newtonian Fluid Mech **81**(3) 197-213 (Mar 1999), 7A1051

Shear instability inhibition in a cylinder wake by local injection of a viscoelastic fluid, Phys Fluids **11**(2) 494-496 (Feb 1999), 7T1065

Characteristics of low-speed streaks in the flow of drag-reducing surfactant solution, JSME Int J Ser B **40**(4) 550-557 (Nov 1997), 8A1115

Drag characteristics of a turbulent boundary layer over a flat plate with transverse square grooves, Exp Fluids **26**(3) 273-275 (Feb 1999), 8A1116

Drag reduction of Newtonian fluid in a circular pipe with a highly water-repellent wall, J Fluid Mech **381** 225-238 (Feb 1999), 8A1117

Mechanism of drag reduction of near-wall turbulence by wall oscillation, JSME Int J Ser B **40**(4) 558-566 (Nov 1997), 8T1118

Drag reduction by coupled systems: Microbubble injection with homogeneous polymer and surfactant solutions, Exp Fluids **26**(5) 397-403 (Apr 1999), 10A1187

Reduction of turbulent wall friction through spanwise wall oscillations, J Fluid Mech **383** 175-195 (Mar 1999), 10A1188

Drag reduction of a non-Newtonian fluid by fluid injection on a moving wall, Arch Appl Mech **69**(3) 215-225 (Apr 1999), 11A1201

Natural low-frequency riblets, Flow Turbulence Combust **60**(3) 235-255 (1998), 11T1202

Passive laminar drag reduction, Comptes Rendus L'Acad Sci Serie II **327**(5) 449-456 (May 1999), 11A1203

Improved diameter scaling correlation for turbulent flow of drag-reducing polymer solutions, J Non-Newtonian Fluid Mech **84**(2-3) 131-148 (Aug 1999), 12A1141

Improved quantification of the drag reduction phenomenon through turbulence reduction parameters, J Non-Newtonian Fluid Mech **84**(2-3) 123-130 (Aug 1999), 12A1145

Influence of a drag-reducing surfactant on a turbulent velocity field, J Fluid Mech **388** 1-20 (Jun 1999), 12A1146

Decay of grid turbulence in polymer and surfactant solutions, Phys Fluids **11**(8) 2387-2393 (Aug 1999), 12T1205

362T. Non-equilibrium and chemical effects

Numerical studies of reacting flows over flat walls with fuel injection - Part 2: Triple-structure-stabilization of a diffusion flame, JSME Int J Ser B **42**(1) 100-110 (Feb 1999), 8A1119

362Y. Computational techniques

Analytic corrections to computational heating predictions accounting for changes in surface catalysis, J Spacecraft Rockets **35**(4) 417-423 (Jul-Aug 1998), 2A1162

Robust high-resolution split-type compact FD scheme for spatial direct numerical simulation of boundary-layer transition, Appl Sci Res **59**(4) 353-377 (1997), 4A48

Indirect BEM for shear flow over prolate and oblate hemispheroidal protuberances on plane walls, Int J Numer Methods Fluids **28**(6) 961-981 (Oct 1998), 4A59

Numerical study of hypersonic reacting boundary layer transition on cones, Phys Fluids **10**(10) 2676-2685 (Oct 1998), 4A1087

Computation of internal high-speed separated flow with modified B-L and J-K models, Int J Numer Methods Fluids **28**(7) 1053-1071 (Nov 1998), 4A1145

Experimental and numerical investigation of 2D backward-facing step flow, J Fluids Struct **12**(6) 703-716 (Aug 1998), 4A1148

Analysis of 3D backward-facing step incompressible flows via a local average-based numerical procedure, Int J Numer Methods Fluids **28**(7) 1073-1091 (Nov 1998), 4A1153

Effect of large injection rates on unsteady mixed convection at a 3D stagnation point, Int J Non-Linear Mech **34**(1) 85-103 (Jan 1999), 4A1154

Direct numerical simulation of a separated turbulent boundary layer, J Fluid Mech **370** 175-201 (Sep 1998), 4A1207

Direct numerical simulation of viscoelastic turbulent channel flow exhibiting drag reduction: Effect of the variation of rheological parameters, J Non-Newtonian Fluid Mech **79**(2-3) 433-468 (Nov 1998), 4A1212

Transition closure model for predicting transition onset, J Aircraft **35**(5) 769-775 (Sep-Oct 1998), 4A1266

Effective boundary conditions for laminar flows over periodic rough boundaries, J Comput Phys **147**(1) 187-218 (Nov 1998), 5A971

Direct numerical simulation of a separated turbulent boundary layer, J Fluid Mech **374** 379-405 (Nov 1998), 5A1042

Sediment flow in inclined vessels calculated using a multiphase particle-in-cell model for dense particle flows, Int J Multiphase Flow **24**(8) 1359-1382 (Dec 1998), 6T1166

Direct numerical simulation of droplet collisions in a turbulent channel flow - Part I: Collision algorithm, Int J Multiphase Flow **24**(7) 1079-1103 (Nov 1998), 6A1247

Computation of 3D turbulent boundary layers using the V2F model, Flow Turbulence Combust **60**(1) 19-46 (1998), 7T1047

Structure of wall-pressure fluctuations in turbulent boundary layers with adverse pressure gradient and separation, J Fluid Mech **377** 347-373 (Dec 1998), 7A1050

Application of the reduced Navier-Stokes methodology to flow stability of Falkner-Skan class flows, Comput Fluids **28**(3) 307-321 (Mar 1999), 7A1052

Numerical investigation of resonant interactions in adverse-pressure-gradient boundary layers, J Fluid Mech **378** 269-289 (Jan 1999), 8A1120

Numerical simulations of nozzle starting process, Shock Waves **9**(2) 73-79 (Apr 1999), 12T237

Vortex-grid method for Prandtl's equations, SIAM J Sci Comput **20**(4) 1229-1251 (Feb 1999), 12T1147

362Z. Experimental techniques

Boundary-layer control by electric fields, J Fluids Eng **120**(3) 626-629 (Sep 1998), 1A1157

Measurement of unsteady boundary layer developed on an oscillating airfoil using multiple hot-film sensors, Exp Fluids **25**(2) 108-117 (Jul 1998), 2A1154

Influence of temperature on the measurements of Reynolds stresses in shear free turbulence near a wall, Exp Fluids **25**(2) 160-164 (Jul 1998), 2A1163

Pulsed-wire anemometry near walls, Exp Fluids **25**(2) 151-159 (Jul 1998), 2A1164

Characterization of the pressure fluctuations under a fully developed turbulent boundary layer, AIAA J **36**(10) 1808-1816 (Oct 1998), 3A1119

Improved methods for thin, surface boundary layer investigations, Exp Fluids **25**(5-6) 431-444 (Oct 1998), 5T1037

Appraisal of a hot-wire temperature compensation technique for velocity measurements in non-isothermal flows, Int J Heat Mass Transfer **42**(16) 3097-3102 (Aug 1999), 11A1390

364. INTERNAL FLOW (PIPE, CHANNEL, COUETTE)

364B. Laminar flow

Three-dimensional laminar flow in a rotating multiple-pass square channel with sharp 180° turns, J Fluids Eng **120**(3) 488-495 (Sep 1998), 1A1161

Stokes flow in an elastic tube: A large-displacement fluid-structure interaction problem, Int J Numer Methods Fluids **28**(2) 243-265 (Aug 1998), 1A1175

Forced convection during liquid encapsulated crystal growth with an axial magnetic field, J Fluids Eng **120**(4) 844-850 (Dec 1998), 3A1120

Integral transform solution of boundary layer equations in stream function-only formulation, Int J Non-Linear Mech **34**(1) 51-61 (Jan 1999), 4A1155

Steady flow in a helically symmetric pipe, J Fluid Mech **370** 297-320 (Sep 1998), 4A1156

Fluid flow in a tube with an elastic membrane insertion, J Fluid Mech **375** 39-64 (Nov 1998), 5A1047

Flow characteristics of water in microtubes, Int J Heat Fluid Flow **20**(2) 142-149 (Apr 1999), 8A1121

Numerical investigation of a laminar pulsating flow in a rectangular duct, Int J Numer Methods Fluids **29**(8) 935-950 (Apr 1999), 10A1190

Flow in an annulus with corrugated walls, Mech Res Commun **26**(2) 167-170 (Mar-Apr 1999), 11T1204

364C. Turbulent flow

Numerical and experimental investigation of turbulent flow in a rectangular duct, Int J Numer Methods Fluids **28**(2) 225-242 (Aug 1998), 1A1162

Flowfield investigation of the effect of rib open area ratio in a rectangular duct, J Fluids Eng **120**(3) 504-512 (Sep 1998), 1A1167

Methods to set up and investigate low Reynolds number, fully developed turbulent plane channel flows, J Fluids Eng **120**(3) 496-503 (Sep 1998), 1A1196

Linear law of the wall for fully developed turbulent channel flow, Exp Fluids **25**(2) 165-170 (Jul 1998), 2A1150

Numerical simulation on multi-dimensional unsteady turbulent flows in the single plenum exhaust system (Chinese), J Huazhong Univ Sci Tech **26**(5) 58-60 (May 1998), 2A1165

Pipeline purging principles and practice, J Offshore Mech Arctic Eng **120**(4) 249-256 (Nov 1998), 2A1166

Effect of swirl on the annular flow past an axisymmetric poppet valve, Proc Inst Mech Eng C **212**(C6) 473-484 (1998), 3A1121

Investigation of entry region turbulent flows of non-gray gases, Appl Sci Res **59**(1) 43-60 (1997), 3A1122

Turbulence structure of the annular non-swirling flow past an axisymmetric poppet valve, Proc Inst Mech Eng C **212**(C6) 455-471 (1998), 3A1123

Analytical skin friction and heat transfer model for compressible, turbulent, internal flows, Int J Heat Fluid Flow **19**(6) 623-628 (Dec 1998), 4A1157

Direct numerical simulation of the turbulent channel flow of a dilute polymer solution, Appl Sci Res **59**(4) 331-352 (1997), 4A1158

Numerical analysis of the flow characteristics in a helical inlet port (Chinese), J Huazhong Univ Sci Tech **26**(7) 36-38 (Jul 1998), 4A1159

Numerical simulation of a turbulent flow in a channel with surface mounted cubes, Appl Sci Res **59**(4) 395-408 (1997), 4A1160

Evaluation of several turbulence models for turbulent flow in concentric and eccentric annuli, J Energy Resources Tech **120**(4) 268-275 (Dec 1998), 5A1044

Mean-flow scaling of turbulent pipe flow, J Fluid Mech **373** 33-79 (Oct 1998), 5A1045

Turbulent flow in a channel at a low Reynolds number, Exp Fluids **25**(5-6) 503-511 (Oct 1998), 5A1046

Entrainment and mixing studies for a variable density confined jet, Numer Heat Transfer A **35**(2) 205-223 (Feb 1999), 7A1053

Gradually varied flow profiles in rectangular open channels, J Hydraul Res **37**(1) 99-106 (1999), 8T975

Flow characteristics of water in microtubes, Int J Heat Fluid Flow **20**(2) 142-149 (Apr 1999), 8A1121

Prediction of developing turbulent pipe flow by a modified k-ε-γ model, AIAA J **37**(2) 268-270 (Feb 1999), 8T1122

Similarity in non-rotating and rotating turbulent pipe flows, J Fluid Mech **379** 1-22 (Jan 1999), 8A1123

Direct numerical simulation of turbulent channel flow up to $Re_\tau = 590$, Phys Fluids **11**(4) 943-945 (Apr 1999), 8T1187

Preliminary analysis of the scaling exponents in channel flow turbulence, Fluid Dyn Res **24**(4) 201-209 (Apr 1999), 8T1188

Investigations of 3D turbulent flow inside and around a water-jet intake duct under different operating conditions, J Fluids Eng **121**(2) 396-404 (Jun 1999), 9A1191

Predicting noninertial effects with linear and nonlinear eddy-viscosity, and algebraic stress models, Flow Turbulence Combust **60**(2) 215-234 (1998), 9T1192

Two-equation RNG transport modeling of high Reynolds number pipe flow, J Sci Comput **13**(4) 471-483 (Dec 1998), 10A1189

Boundary shear stresses in a rectangular channel (Spanish), Ingenieria Hidraul Mex **14**(2) 21-26 (May-Aug 1999), 11T1076

Large flow structures in a turbulent open channel flow, J Hydraul Res **37**(3) 363-380 (1999), 12A1052

Connection between the Camassa-Holm equations and turbulent flows in channels and pipes, Phys Fluids **11**(8) 2343-2353 (Aug 1999), 12T1224

364D. Transition and relaminarization

Numerical analysis of the flow in an annular-conical passage, J Fluids Eng **120**(3) 513-519 (Sep 1998), 1A1163

Stability of streamwise streaks and transition thresholds in plane channel flows, J Fluid Mech **365** 269-303 (Jun 1998), 1A1164

Laminar-turbulent transition in pipe flow for Newtonian and non-Newtonian fluids, J Fluid Mech **377** 267-312 (Dec 1998), 7A1054

Experiments on the stability of streamwise streaks in plane Poiseuille flow, Phys Fluids **11**(4) 915-930 (Apr 1999), 8A1155

Interactions of three components and subcritical self-sustained amplification of disturbances in plane Poiseuille flow, Phys Fluids **11**(3) 590-601 (Mar 1999), 8A1157

Linear growth in two-fluid plane Poiseuille flow, J Fluid Mech **381** 121-139 (Feb 1999), 8A1158

Relaminarization mechanisms of turbulent channel flow at low Reynolds numbers, Flow Turbulence Combust **60**(2) 193-213 (1998), 9A1193

Stability analysis of perturbed plane Couette flow, Phys Fluids **11**(5) 1187-1195 (May 1999), 9A1212

Direct numerical simulation of a puff and a slug in transitional cylindrical pipe flow, J Fluid Mech **387** 39-60 (May 1999), 11A1205

Detachment phenomena in low Reynolds number flows through sinusoidally constricted tubes, J Fluid Mech **387** 129-150 (May 1999), 11A1209

Stability of fast parallel MHD shock waves in polytropic gas, Eur J Mech B **18**(2) 197-211 (Mar-Apr 1999), 11T1277

364E. Unsteady flow

Flow of polymer melts in plane- and axisymmetric converging dies, J Reinforced Plastics Composites **17**(12) 1135-1144 (1998), 1A1165

Experimental investigation of pulsatile flow through a smooth constriction, Exp Thermal Fluid Sci **17**(4) 369-318 (Aug 1998), 1T1170

Unsteady fully-developed flow in a curved pipe, J Eng Math **34**(1-2) 131-141 (Jul 1998), 2A1169

Simulations of planar flapping jets in confined channels, AIAA J **36**(8) 1425-1431 (Aug 1998), 2A1170

Numerical study of laminar reciprocating flow in a pipe of finite length, Appl Sci Res **59**(1) 11-25 (1997), 3A1124

Oil booms in rapid flow, Ship Tech Res **45**(3) 130-133 (Jul 1998), 3A1125

Modeling and analysis of variable geometry exhaust gas systems, Appl Math Model **22**(8) 545-567 (Aug 1998), 3A1374

Experimental investigation on 2D unsteady cold flow in an exhaust manifold (Chinese), J Shanghai Jiaotong Univ **32**(7) 117-120 (Jul 1998), 4A1161

Fluid flow in a tube with an elastic membrane insertion, J Fluid Mech **375** 39-64 (Nov 1998), 5A1047

Turbulent combined oscillatory flow and current in a pipe, J Fluid Mech **373** 313-348 (Oct 1998), 5A1048

Suitability of the low Mach number assumption in the modeling of the damage induced by pressure transients in piping systems, J Fluids Eng **121**(1) 112-118 (Mar 1999), 7A946

Speed-up of a DFEM code for unsteady gas dynamics in pipes, Int J Mech Sci **41**(7) 793-813 (Jul 1999), 7A1055

Residence-time distributions for chaotic flows in pipes, Chaos **9**(1) 173-182 (Mar 1999), 8A1124

Experimental flow study within a self oscillating collapsible tube, J Fluids Struct **13**(1) 61-73 (Jan 1999), 8T1129

Effect of a moving boundary on pulsatile flow of incompressible fluid in a tube, Comput Mech **23**(1) 20-32 (Feb 1999), 9A1194

Evaluating the effective friction factor and overall heat transfer coefficient during unsteady pipeline operation, J Offshore Mech Arctic Eng **121**(2) 131-136 (May 1999), 9A1195

Axial dispersion induced by vibrations of a flexible tube, Int J Eng Sci **37**(7) 863-881 (May 1999), 10A307

Numerical investigation of a laminar pulsating flow in a rectangular duct, Int J Numer Methods Fluids **29**(8) 935-950 (Apr 1999), 10A1190

Oscillatory flow in a tube of time-dependent curvature - Part I: Perturbation to flow in a stationary curved tube, J Fluid Mech **383** 327-352 (Mar 1999), 10A1633

Experimental study of the flow in the suction pipe of a centrifugal pump at partial flow rates in unsteady conditions, J Pressure Vessel Tech **121**(3) 291-295 (Aug 1999), 11A1303

Pressure transients in incompressible fluid pipeline networks, Nucl Eng Des **188**(1) 1-11 (Apr 1999), 11A1617

364G. Nonequilibrium and chemical effects

Axial pressure distribution in the entrance region of packed beds of spheres, J Fluids Eng **120**(3) 631-634 (Sep 1998), 1A1169
Linear stability analysis of channel inception: Downstream-driven theory (Japanese), Proc JSCE **614**(II-46) 65-75 (Feb 1999), 10T1191

364H. Creeping flow

Pressure drop of the polymer melt flow in a pipe, J Reinforced Plastics Composites **17**(13) 1155-1166 (1998), 2A1167
Sandwich injection molding technology: Effects and limiting quantities for the spatial distribution of the components, J Reinforced Plastics Composites **17**(16) 1404-1413 (1998), 3A722
Stokes flow in a double-lid-driven cavity with free surface side walls, Proc Inst Mech Eng C **212**(C5) 387-403 (1998), 3A1126

364I. Swirling flow

Coupling between a viscoelastic gas-liquid interface and a swirling vortex flow, J Fluids Eng **120**(4) 655-661 (Dec 1998), 3A506
Axisymmetric breakdown of a Q-vortex in a pipe, AIAA J **36**(10) 1848-1853 (Oct 1998), 3A1150
Steady flow in a helically symmetric pipe, J Fluid Mech **370** 297-320 (Sep 1998), 4A1156
Measurement and analysis of swirling flow in a cyclone cylinder (Chinese), J Shanghai Jiaotong Univ **32**(7) 67-69 (Jul 1998), 4A1162
Theoretical and experimental study on the conical swirling water jet flow, J Hydrodyn **10**(3) 80-90 (1998), 4T1163
Wave modes in ducted swirling flows, J Fluid Mech **371** 1-20 (Sep 1998), 4A1164
Toward a vortex breakdown condition for swirling annular jets, J Fluids Eng **121**(1) 102-105 (Mar 1999), 7A958
Collapse, symmetry breaking, and hysteresis in swirling flows, Annu Rev Fluid Mech **31** 537-566 (1999), 7A1056
Inviscid instability of compressible swirling mixing layers, Phys Fluids **11**(2) 450-461 (Feb 1999), 7A1083
Reynolds stress modeling of a jet and swirl interaction inside a gas turbine combustor, Int J Numer Methods Fluids **29**(4) 451-464 (Feb 1999), 7A1505
Annular vane swirler performance, J Propulsion Power **15**(2) 248-252 (Mar-Apr 1999), 8A1125
Absolute inviscid instability of a ring jet with backflow and swirl, Eur J Mech B **18**(1) 3-12 (Jan-Feb 1999), 8A1168
Measurement of turbulent flow fields in a stirred vessel with four baffles by laser-doppler velocimetry: Analysis with periodic averaged velocity profiles, JSME Int J Ser B **41**(4) 806-813 (Nov 1998), 8T1193
Study on the swirling flow field in the freeboard of a vortexing fluidized bed combustor, JSME Int J Ser B **41**(3) 538-545 (Aug 1998), 8A1429
Flow in a simple swirl chamber with and without controlled inlet forcing, Exp Fluids **26**(4) 347-357 (Mar 1999), 9A1196
Helical vortices in swirl flow, J Fluid Mech **382** 195-243 (Mar 1999), 9A1197
Swirl measurements in a motor cylinder, Exp Fluids **26**(6) 542-548 (May 1999), 11A1507
Friction and heat transfer decaying characteristics of free decaying swirl flow in pipe (Chinese), J Shanghai Jiaotong Univ **33**(3) 323-330 (Mar 1999), 12A1148

364J. Stratified flow

Numerical and experimental investigation of thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct with rotating inner cylinder, Eur J Mech B **17**(6) 875-900 (Nov-Dec 1998), 5T950
Pressure gradient in horizontal liquid-liquid flows, Int J Multiphase Flow **24**(7) 1183-1203 (Nov 1998), 6T1184
Instability due to second normal stress jump in two-layer shear flow of the Giesekus fluid, J Non-Newtonian Fluid Mech **81**(3) 215-234 (Mar 1999), 7A1057

364K. Rotating fluids or surfaces

Three-dimensional laminar flow in a rotating multiple-pass square channel with sharp 180° turns, J Fluids Eng **120**(3) 488-495 (Sep 1998), 1A1161
Influence of downstream passage on the flow within an annular S-shaped duct, J Turbomachinery **120**(4) 714-722 (Oct 1998), 2A1168
Recirculation zones in a cylindrical container, J Fluids Eng **120**(4) 680-684 (Dec 1998), 3A1129
Secondary instability in rotating channel flow, J Fluid Mech **368** 27-50 (Aug 1998), 3A1149
Competition of Coriolis instability with centrifugal instability and its effects on heat transfer in a rotating curved heated channel, Int J Non-Linear Mech **34**(1) 35-50 (Jan 1999), 4A1165
Numerical and experimental investigation of thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct with rotating inner cylinder, Eur J Mech B **17**(6) 875-900 (Nov-Dec 1998), 5T950
Secondary flows and developing, turbulent boundary layers in a rotating duct, J Fluid Mech **373** 1-32 (Oct 1998), 5A1041
Modeling of infiltration of molten metal in fibrous preform by centrifugal force, Acta Mat **47**(3) 841-852 (Feb 1999), 8A616
Finite element analysis of the lift on a slightly deformable and freely rotating and translating cylinder in 2D channel flow, J Biomech Eng **121**(2) 148-152 (Apr 1999), 8A1023
Similarity in non-rotating and rotating turbulent pipe flows, J Fluid Mech **379** 1-22 (Jan 1999), 8A1123
Analogy of forced convective heat transfer between laminar flows in curved pipes and orthogonally rotating pipes, JSME Int J Ser B **42**(1) 48-55 (Feb 1999), 8A1126
Design and analysis of spiral mandrel dies for wire coating application, J Reinforced Plastics Composites **18**(3) 251-260 (1999), 8A1127
Analysis of flow in the spiral casing using a streamline upwind Petrov Galerkin method, Int J Numer Methods Eng **45**(2) 147-174 (May 1999), 10A1192
Global solution algorithm with some assisting techniques for modeling of unsteady flow in centrifuge cascade pipe network, Comput Methods Appl Mech Eng **173**(1-2) 257-269 (Apr 1999), 10A1193
Effect of inlet boundary layer thickness on the flow with an annular S-shaped duct, J Turbomachinery **121**(3) 626-634 (Jul 1999), 11A1206
Fluid flow in a 180° sharp turning duct with different divider thicknesses, J Turbomachinery **121**(3) 569-576 (Jul 1999), 11A1207
Bifurcation study of flow through rotating curved ducts, Phys Fluids **11**(8) 2030-2043 (Aug 1999), 12A1149
Flow structure in a 180° curved diffusing duct, Arab J Sci Eng **24**(1B) 79-87 (Apr 1999), 12A1150

364L. Heat addition

Direct numerical simulation of a turbulent channel flow with a linear spanwise mean temperature gradient, Int J Heat Mass Transfer **41**(22) 3627-3634 (Nov 1998), 3A1227
Heat transfer enhancement in 3D corrugated channel flow, Int J Heat Mass Transfer **41**(22) 3559-3573 (Nov 1998), 3A1230
Numerical and experimental study of transient turbulent natural convection in a horizontal cylindrical container, Int J Heat Mass Transfer **41**(22) 3635-3645 (Nov 1998), 3A1239
Competition of Coriolis instability with centrifugal instability and its effects on heat transfer in a rotating curved heated channel, Int J Non-Linear Mech **34**(1) 35-50 (Jan 1999), 4A1165
Thermal transport in turbulent Couette flows in concentric annuli for various Prandtl numbers, Numer Heat Transfer A **34**(5) 537-552 (Oct 1998), 4A1219
Generalized Couette-Poiseuille flow with boundary mass transfer, J Fluid Mech **374** 221-249 (Nov 1998), 5A1049
Approximate solutions for developing shear dispersion with exchange between phases, J Fluid Mech **374** 195-219 (Nov 1998), 5A1533
Analogy of forced convective heat transfer between laminar flows in curved pipes and orthogonally rotating pipes, JSME Int J Ser B **42**(1) 48-55 (Feb 1999), 8A1126
Adverse and favorable mixed convection heat transfer in a two-sided heated square channel, Exp Thermal Fluid Sci **18**(4) 314-322 (Dec 1998), 8T1311
Discrete-ordinates solution for heat transfer in a plane channel, J Comput Phys **152**(1) 251-263 (Jun 1999), 11T1211
Transition of chaotic flow in a radially heated Taylor-Couette system, J Heat Transfer **121**(3) 574-582 (Aug 1999), 12A1320

364M. Non-Newtonian flow

Development of a mathematical model for the calculation of the pressure drop in extrusion dies, J Reinforced Plastics Composites **17**(12) 1110-1118 (1998), 1A768
Analysis of yield-power-law fluid flow in irregular eccentric annuli, J Energy Resources Tech **120**(3) 201-207 (Sep 1998), 1A1166
Coupling between a viscoelastic gas-liquid interface and a swirling vortex flow, J Fluids Eng **120**(4) 655-661 (Dec 1998), 3A506
Simulation of compression resin transfer molding with displacement control, J Reinforced Plastics Composites **17**(17) 1525-1556 (1998), 3A723
Theoretical investigation of interfacial instabilities in the three layer superposed channel flow of viscoelastic fluids, J Non-Newtonian Fluid Mech **79**(2-3) 315-360 (Nov 1998), 4A532
Spatial development of director orientation of tumbling nematic liquid crystals in pressure-drive channel flow, J Non-Newtonian Fluid Mech **79**(2-3) 515-527 (Nov 1998), 4A989
Applications of stochastic estimation in the axisymmetric sudden expansion, Phys Fluids **10**(11) 2941-2949 (Nov 1998), 4T1166
Numerical and experimental investigation of thermal convection for a thermodependent Herschel-Bulkley fluid in an annular duct with rotating inner cylinder, Eur J Mech B **17**(6) 875-900 (Nov-Dec 1998), 5T950
Structure of the spectrum in zero Reynolds number shear flow of the UCM and Oldroyd-B liquids, J Non-Newtonian Fluid Mech **80**(2-3) 251-268 (Jan 1999), 5A1050
Effect of transient viscoelastic properties on interfacial instabilities in superposed pressure driven channel flows, J Non-Newtonian Fluid Mech **80**(2-3) 217-249 (Jan 1999), 5A1066
Investigation of interfacial instabilities in the superposed channel flow of viscoelastic fluids, J Non-Newtonian Fluid Mech **81**(1-2) 27-69 (Feb 1999), 6A538
Analytical solutions for squeeze flow with partial wall slip, J Non-Newtonian Fluid Mech **81**(1-2) 1-15 (Feb 1999), 6A1195
Hysteresis phenomenon in nonisothermal channel flow of a non-Newtonian liquid, J Non-Newtonian Fluid Mech **81**(1-2) 17-26 (Feb 1999), 6A1250
Time-dependent plane Poiseuille flow of a Johnson-Segalman fluid, J Non-Newtonian Fluid Mech **82**(1) 105-123 (Apr 1999), 7A967
Laminar-turbulent transition in pipe flow for Newtonian and non-Newtonian fluids, J Fluid Mech **377** 267-312 (Dec 1998), 7A1054
Instability due to second normal stress jump in two-layer shear flow of the Giesekus fluid, J Non-Newtonian Fluid Mech **81**(3) 215-234 (Mar 1999), 7A1057
Flow of a yield strength fluid through a contraction, J Non-Newtonian Fluid Mech **81**(3) 183-195 (Mar 1999), 7A1058
Finite element analysis of A polymeric liquid passing over a transverse slot, J Chinese Soc Mech Eng **20**(1) 67-74 (Feb 1999), 9A1198
Numerical study of non-Newtonian fluids flow across an abrupt enlargement (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 91-94 (Jan 1999), 9A1199
Plastic deformation and non-Newtonian flow in glassy polycarbonate, JSME Int J Ser A **41**(1) 31-39 (Jan 1998), 10A590
Analytical solution for fully developed channel and pipe flow of Phan-Thien-Tanner fluids, J Fluid Mech **387** 271-280 (May 1999), 11A1208
Experimental characterization of Newtonian and non-Newtonian fluid flows in corrugated channels, Int J Eng Sci **37**(11) 1461-1479 (Sep 1999), 12A1151
Maxwell fluid suction flow in a channel, J Non-Newtonian Fluid Mech **85**(2-3) 165-187 (Aug 1999), 12A1152

364N. Roughness effect

Flowfield investigation of the effect of rib open area ratio in a rectangular duct, J Fluids Eng **120**(3) 504-512 (Sep 1998), 1A1167
Inertial lift on a spherical particle in a plane Poiseuille flow at large channel Reynolds number, J Fluid Mech **381** 63-87 (Feb 1999), 8A1128

364O. Porous walls

Long series analysis of laminar flow through parallel and uniformly porous walls of different permeability, Comput Methods Appl Mech Eng **160**(1-2) 39-56 (Jul 1998), 1A1168
Model for unsaturated flow in woven fiber preforms during mold filling in resin transfer molding, J Composite Mat **32**(19) 1752-1783 (1998), 3A1127
Inverse problems in resin transfer molding, J Composite Mat **32**(24) 2178-2202 (1998), 5A1051
Transient pressure of percolation through 1D porous media with threshold pressure gradient, Appl Math Mech **20**(1) 27-35 (Jan 1999), 9A1200
Radial flow permeability measurement - Part A: Theory, Composites Part A Appl Sci and Manuf **30A**(6) 781-796 (1999), 10A817
Radial flow permeability measurement - Part B: Application, Composites Part A Appl Sci and Manuf **30A**(6) 797-813 (1999), 10A818
Use of Darcy permeability in sheared fabrics, J Reinforced Plastics Composites **18**(5) 472-484 (1999), 10A819
Permeability characterization of different architectural fabrics, J Composite Mat **33**(8) 729-750 (1999), 10A1194
Flow characteristics of single phase fluid in multiorifice distributing pipe and collecting pipe (Chinese), J Shanghai Jiaotong Univ **33**(3) 297-300 (Mar 1999), 12A1153

364P. Obstructions

Axial pressure distribution in the entrance region of packed beds of spheres, J Fluids Eng **120**(3) 631-634 (Sep 1998), 1A1169
Experimental investigation of pulsatile flow through a smooth constriction, Exp Thermal Fluid Sci **17**(4) 369-318 (Aug 1998), 1T1170
Mechanism of reverse flow in a channel with an obstruction at the entry, Fluid Dyn Res **23**(3) 177-187 (Sep 1998), 1A1171
Effect of periodic aerodynamic pulsation on flow over a confined butterfly valve, Exp Fluids **25**(4) 362-368 (Sep 1998), 3A1128
Fluid flow in a tube with an elastic membrane insertion, J Fluid Mech **375** 39-64 (Nov 1998), 5A1047
Experimental flow study within a self oscillating collapsible tube, J Fluids Struct **13**(1) 61-73 (Jan 1999), 8T1129
Nonlinear dynamic analysis of fluid flow through tubes with local constriction (Chinese), J Xi'an Jiaotong Univ **33**(2) 50-54 (1999), 8A1130
Numerical revisit of backward-facing step flow problem, Phys Fluids **11**(4) 862-874 (Apr 1999), 8T1133
Detachment phenomena in low Reynolds number flows through sinusoidally constricted tubes, J Fluid Mech **387** 129-150 (May 1999), 11A1209
Steady and pulsating flow characteristics in straight tubes with and without a lateral circular protrusion, Exp Fluids **26**(6) 505-512 (May 1999), 11A1210
Numerical methods in the prediction of pressure fluctuations on board trains passing through tunnels, Strojnicky Casopis **50**(3) 168-176 (1999), 12A1154

364R. Secondary flow, effects of curvature

Mechanism of reverse flow in a channel with an obstruction at the entry, Fluid Dyn Res **23**(3) 177-187 (Sep 1998), 1A1171
Unsteady fully-developed flow in a curved pipe, J Eng Math **34**(1-2) 131-141 (Jul 1998), 2A1169
Recirculation zones in a cylindrical container, J Fluids Eng **120**(4) 680-684 (Dec 1998), 3A1129
Convergence of a fully discrete approximation for advected mean curvature flows, IMA J Numer Anal **18**(4) 595-634 (Oct 1998), 4A1167
Vortices and wall shear stresses in asymmetric and symmetric channels with sinusoidal wavy walls for pulsatile flow at low Reynolds numbers, Int J Heat Fluid Flow **19**(6) 583-593 (Dec 1998), 4A1168
Pipe flow with radial inflow: Experimental and modeling work, J Fluids Eng **121**(1) 106-111 (Mar 1999), 7A1059
Flow and heat transfer in a smooth U-duct with and without rotation, J Propulsion Power **15**(2) 272-279 (Mar-Apr 1999), 8A1131
Nonlinear stability of the oscillatory viscous flow of an incompressible fluid in a curved pipe, J Fluid Mech **379** 145-163 (Jan 1999), 8A1132
Gortler vortices: Are they amenable to local eigenvalue analysis?, Eur J Mech B **18**(1) 47-65 (Jan-Feb 1999), 8A1161
Chaotic mixing and mass transfer enhancement by pulsatile laminar flow in an axisymmetric wavy channel, Int J Heat Mass Transfer **42**(14) 2571-2581 (Jul 1999), 8A1391
Effects of secondary flow and passive injection on the motion of solid particles entrained in flow through a curved converging channel, J Fluids Eng **121**(2) 359-364 (Jun 1999), 9A1201
Control of the fastest growing Gortler vortex, Theor Comput Fluid Dyn **13**(1) 21-31 (Apr 1999), 10A1186
Role of buoyancy in determining the stability of curved mixing layers, Phys Fluids **11**(6) 1495-1501 (Jun 1999), 11T1238

364T. Suction and injection

Pressure response and droplet ejection of a piezoelectric inkjet printhead, Int J Mech Sci **41**(2) 235-248 (Feb 1999), 4A1169
Flow-injection analysis in anticipation of the year 2000, Lab Robotics Autom **10**(6) 325-367 (1998), 5T1052
Uneven mass-addition model for simulating the gas flow in turbocharging systems of internal combustion engines (Chinese), J Shanghai Jiaotong Univ **33**(3) 342-345 (Mar 1999), 12A1155

364Y. Computational techniques

Numerical and experimental investigation of turbulent flow in a rectangular duct, Int J Numer Methods Fluids **28**(2) 225-242 (Aug 1998), 1A1162

Numerical analysis of the flow in an annular-conical passage, J Fluids Eng **120**(3) 513-519 (Sep 1998), 1A1163

Assessment of geometric multilevel convergence robustness and a wall distance method for flows with multiple internal boundaries, Appl Math Model **22**(4-5) 293-311 (Apr-May 1998), 1A1172

Branched channel free-streamlines, Comput Methods Appl Mech Eng **159**(3-4) 329-354 (Jul 1998), 1A1173

Optimal design of a multi-stage capsule handling multi-phase pipeline, Int J Pressure Vessels Piping **75**(1) 27-35 (Jan 1998), 1A1174

Stokes flow in an elastic tube: A large-displacement fluid-structure interaction problem, Int J Numer Methods Fluids **28**(2) 243-265 (Aug 1998), 1A1175

Numerical simulation on multi-dimensional unsteady turbulent flows in the single plenum exhaust system (Chinese), J Huazhong Univ Sci Tech **26**(5) 58-60 (May 1998), 2A1165

Simulations of planar flapping jets in confined channels, AIAA J **36**(8) 1425-1431 (Aug 1998), 2A1170

Comparison of K-ε and K-ω turbulence models for simulation of shallow recirculating flows in an open channel, J Hydrodyn **10**(2) 74-86 (1998), 2T1204

Integral transform solution of boundary layer equations in stream function-only formulation, Int J Non-Linear Mech **34**(1) 51-61 (Jan 1999), 4A1155

Direct numerical simulation of the turbulent channel flow of a dilute polymer solution, Appl Sci Res **59**(4) 331-352 (1997), 4A1158

Numerical simulation of a turbulent flow in a channel with surface mounted cubes, Appl Sci Res **59**(4) 395-408 (1997), 4A1160

New total variation diminishing scheme for the calculation of 1D flow in inlet and exhaust pipes of internal combustion engines, Proc Inst Mech Eng D **212**(D5) 437-448 (1998), 4A1170

Numerical study of the flow behavior in the uniform velocity entry flow problem, Numer Heat Transfer A **34**(5) 479-494 (Oct 1998), 4A1171

Quantitative analysis of the resin transfer molding process, J Composite Mat **32**(20) 1865-1892 (1998), 4A1172

Non-oscillatory scheme for open channel flows, Adv Water Resources **22**(2) 133-143 (Oct 1998), 5A924

Adaptively refined quadtree grid method for incompressible flows, Numer Heat Transfer B **34**(4) 379-400 (Dec 1998), 5A1053

Theoretical analysis of pressure and flow ripple in flexible hoses containing tuners, J Syst Control Eng **212**(16) 405-422 (1998), 6A416

Flow of Robertson-Stiff fluids through an eccentric annulus, Appl Math Mech **19**(10) 1007-1016 (Oct 1998), 6A1126

Analysis of the steady flow in an irrectangular parallel-plate flow chamber, Appl Math Mech **19**(9) 851-859 (Sep 1998), 6A1251

Numerical simulation of 3D gas flow field in 3-way branch pipe by ALE method (Chinese), J Huazhong Univ Sci Tech **26**(10) 90-92 (Oct 1998), 6A1252

Application of convection-diffusion equation to the analyses of contamination between batches in multi-products pipeline transport, Appl Math Mech **19**(8) 757-775 (Aug 1998), 6A1358

Numerical simulation of the flow in a conduit, in the presence of a confined air cushion, Int J Numer Methods Fluids **29**(4) 485-498 (Feb 1999), 7A1060

Nonlinear dynamic analysis of fluid flow through tubes with local constriction (Chinese), J Xi'an Jiaotong Univ **33**(2) 50-54 (1999), 8A1130

Numerical revisit of backward-facing step flow problem, Phys Fluids **11**(4) 862-874 (Apr 1999), 8T1133

Predicting noninertial effects with linear and nonlinear eddy-viscosity, and algebraic stress models, Flow Turbulence Combust **60**(2) 215-234 (1998), 9T1192

Relaminarization mechanisms of turbulent channel flow at low Reynolds numbers, Flow Turbulence Combust **60**(2) 193-213 (1998), 9A1193

Effects of secondary flow and passive injection on the motion of solid particles entrained in flow through a curved converging channel, J Fluids Eng **121**(2) 359-364 (Jun 1999), 9A1201

Particles' transport in a single fracture under variable flow regimes, Adv Eng Software **30**(5) 327-337 (May 1999), 9A1202

Reed valve modeling in a computational fluid dynamics simulation of the two-stroke engine, Proc Inst Mech Eng D **213**(D1) 37-45 (1999), 9A1476

Numerical investigation of a laminar pulsating flow in a rectangular duct, Int J Numer Methods Fluids **29**(8) 935-950 (Apr 1999), 10A1190

Flux-corrected transport technique for open channel flow, Int J Numer Methods Fluids **29**(8) 951-973 (Apr 1999), 10A1195

Application of the lattice Bhatnagar-Gross-Krook method to the simulation of internal pressure-driven flow, Physica D **129**(1-2) 68-82 (May 1999), 11A1136

Direct numerical simulation of a puff and a slug in transitional cylindrical pipe flow, J Fluid Mech **387** 39-60 (May 1999), 11A1205

Discrete-ordinates solution for heat transfer in a plane channel, J Comput Phys **152**(1) 251-263 (Jun 1999), 11T1211

Wavelet analysis of the breakdown of a pulsed vortex flow, Proc Inst Mech Eng C **213**(C3) 217-229 (1999), 11A1212

Dynamic modeling of capsule separator for control of hydraulic capsule pipelines, J Dyn Syst Meas Control **121**(2) 233-241 (Jun 1999), 12A437

Finite volume method applied to 1D unsteady flow simulation of internal combustion engine manifold system (Chinese), J Shanghai Jiaotong Univ **33**(3) 339-341 (Mar 1999), 12A1156

364Z. Experimental techniques

Flowfield investigation of the effect of rib open area ratio in a rectangular duct, J Fluids Eng **120**(3) 504-512 (Sep 1998), 1A1167

Laser Doppler velocimetry velocity bias in turbulent open channel flow, AIAA J **36**(8) 1544-1546 (Aug 1998), 2T1269

Experimental analysis of mold filling in compression resin transfer molding, J Reinforced Plastics Composites **17**(16) 1414-1430 (1998), 3A718

Effect of periodic aerodynamic pulsation on flow over a confined butterfly valve, Exp Fluids **25**(4) 362-368 (Sep 1998), 3A1128

Turbulent flow in a channel at a low Reynolds number, Exp Fluids **25**(5-6) 503-511 (Oct 1998), 5A1046

Nuclear magnetic resonance as a tool to study flow, Annu Rev Fluid Mech **31** 95-123 (1999), 7A1041

Steady and pulsating flow characteristics in straight tubes with and without a lateral circular protrusion, Exp Fluids **26**(6) 505-512 (May 1999), 11A1210

Experimental investigations of the flow patterns in the hot leg of a pressurized water reactor, Nucl Eng Des **188**(1) 75-84 (Apr 1999), 11A1213

Swirl measurements in a motor cylinder, Exp Fluids **26**(6) 542-548 (May 1999), 11A1507

366. INTERNAL FLOW (INLETS, NOZZLES, DIFFUSERS, CASCADES)

366B. Steady flow

Two-phase momentum flux in pipes and its application to incompressible flow in nozzles, Proc Inst Mech Eng C **212**(C7) 631-641 (1998), 5A1014

366C. Unsteady flow

Choking of the flow of piezoviscous liquids, J Fluids Eng **120**(3) 621-625 (Sep 1998), 1A1114

Development of vortex generator use for a transitioning high-speed inlet, J Aircraft **35**(4) 536-543 (Jul-Aug 1998), 1A1176

Model of a homogenized cavity corresponding to a multinozzle droplet generator for continuous ink-jet printers, Numer Methods PDE **14**(6) 821-842 (Nov 1998), 4A1173

Computation of 3D compressible flow from a rectangular nozzle with delta tabs, J Eng Gas Turbines Power **121**(2) 235-242 (Apr 1999), 8A1134

Effects of entrainment and deposition mechanisms on annular dispersed two-phase flow in a converging nozzle, Int J Multiphase Flow **25**(2) 321-347 (Mar 1999), 9T1165

Correlation for formation of inlet vortex, AIAA J **37**(4) 508-510 (Apr 1999), 9T1203

Flow characteristics inside a diffuser of complex shape, Proc Inst Mech Eng C **213**(C3) 277-289 (1999), 11A1214

366E. Nonequilibrium and chemical effects

Axisymmetric "fluidic" nozzle to generate jet precession, J Fluid Mech **370** 347-380 (Sep 1998), 4A1174

Flow of wet steam in a 1D nozzle, Int J Numer Methods Eng **44**(12) 1807-1821 (Apr 1999), 9A1204

366F. Swirling flow

Isothermal experimental investigation of turbulence transport through an abrupt axisymmetric expansion, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 45-55 (1998), 1A1177

Finite-element simulation of laminar swirling decaying flow induced by means of a tangential inlet in an annulus, Comput Methods Appl Mech Eng **165**(1-4) 189-213 (Nov 1998), 4A1175

366G. Secondary flow

Experimental study on the development of a reverse flow zone in a vaneless diffuser, JSME Int J Ser B **41**(3) 546-555 (Aug 1998), 8T1135

366J. Separation and reattachment

Nozzle flow separation, AIAA J **36**(9) 1618-1625 (Sep 1998), 2A1171

Visualization of a locally-forced separated flow over a backward facing step, Exp Fluids **25**(2) 133-142 (Jul 1998), 2A1172

Prediction of turbulent flow separation in conical diffusers, Trans Inst Fluid-Flow Machinery **0**(104) 105-117 (1998), 10A1196

Prediction of turbulent flow separation in conical diffusers, Trans Inst Fluid-Flow Machinery **0**(104) 105-117 (1998), 10T1197

366L. Suction and injection

Flow-injection analysis in anticipation of the year 2000, Lab Robotics Autom **10**(6) 325-367 (1998), 5T1052

Engines: An Introduction (Cambridge UP, UK, 1999) 11R28

366M. Obstructions

Effects of increasing particle loading in an axisymmetric, vertical, liquid-solid sudden expansion flow, J Fluids Eng **121**(1) 171-178 (Mar 1999), 7A1061

PIV study of the laminar axisymmetric sudden expansion flow, Exp Fluids **26**(3) 266-272 (Feb 1999), 8A1136

Laminar flow of a nonlinear viscoplastic fluid through an axisymmetric sudden expansion, J Fluids Eng **121**(2) 488-495 (Jun 1999), 9A599

366N. Performance and optimization

Computer aided design of supersonic jet nozzle for jet mill (Chinese), J Dalian Univ Tech **38**(5) 553-557 (Sep 1998), 4A1176

Automated optimal design of 2D supersonic missile inlets, J Propulsion Power **14**(6) 890-898 (Nov-Dec 1998), 5A1054

Turbulent solid-liquid flow through the nozzle of premixed abrasive water jet cutting systems, Proc Inst Mech Eng J Eng Manuf **213**(B1) 59-67 (1999), 7A1062

Calculation of supersonic minimum length nozzles for equilibrium flow, Inverse Prob Eng **7**(1) 65-95 (1999), 9A1205

Flow measurements in a fishtail diffuser with strong curvature, J Fluids Eng **121**(2) 410-417 (Jun 1999), 9A1206

Design of 3D hypersonic inlets with rectangular-to-elliptical shape transition, J Propulsion Power **15**(3) 408-416 (May-Jun 1999), 12A1157

366Y. Computational techniques

Vortex-generator installation studies on steady-state and dynamic distortion, J Aircraft **35**(4) 513-520 (Jul-Aug 1998), 1A1178

Investigation of supersonic free jets emanating from convergent-divergent nozzles, Int J Comput Fluid Dyn **10**(1) 61-71 (1998), 2T1118

Computational method for supersonic viscous flow in nozzles (Chinese), J Xi'an Jiaotong Univ **32**(7) 60-62 (1998), 3A1130

Computational and experimental evaluation of the performance of a centrifugal fan volute, Proc Inst Mech Eng A **212**(A4) 235-246 (1998), 4A1177

Novel inverse method for 2D blade cascade flows using NS solver, Inverse Prob Eng **6**(4) 299-315 (1998), 4A1178

Numerical optimization of a stator vane setting in multistage axial-flow compressors, Proc Inst Mech Eng A **212**(A4) 247-259 (1998), 4A1179

Simulation of the subsonic flow in a high-speed centrifugal compressor impeller by the pressure-based method, Proc Inst Mech Eng A **212**(A4) 269-287 (1998), 4A1276

PIV study of the laminar axisymmetric sudden expansion flow, Exp Fluids **26**(3) 266-272 (Feb 1999), 8A1136

Shock oscillations in diffuser modeled by a selective noise amplification, AIAA J **37**(4) 453-459 (Apr 1999), 9A1153

Lattice Boltzmann scheme for incompressible multiphase flow and its application in simulation of Rayleigh-Taylor instability, J Comput Phys **152**(2) 642-663 (Jul 1999), 12T1158

366Z. Experimental techniques

Isothermal experimental investigation of turbulence transport through an abrupt axisymmetric expansion, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 45-55 (1998), 1A1177

Vortex-generator installation studies on steady-state and dynamic distortion, J Aircraft **35**(4) 513-520 (Jul-Aug 1998), 1A1178

LDV study of developing flows through a smooth duct with a 180° straight-corner turn, J Turbomachinery **121**(1) 167-174 (Jan 1999), 5A1148

368. FREE SHEAR LAYERS (MIXING LAYERS, JETS, WAKES, CAVITIES, PLUMES)

368B. Laminar incompressible

Large-amplitude pulsating fountains, J Fluid Mech **366** 333-350 (Jul 1998), 1A1115

Annular liquid jets and other axisymmetric free-surface flows at high Reynolds numbers, Appl Math Model **22**(6) 423-452 (Jun 1998), 1A1179

Leading-order equivalence of two formulations for long, annular liquid membranes, Appl Math Model **22**(6) 453-457 (Jun 1998), 1T1180

Physical analysis of the transition to turbulence in the wake of a circular cylinder by 3D Navier-Stokes simulation, J Fluid Mech **365** 23-88 (Jun 1998), 1A1181

Free surface of a high speed capillary jet, Appl Sci Res **59**(1) 77-88 (1997), 3A1131

Wavelet and chaos analysis of irregularities of vortex shedding, Mech Res Commun **25**(5) 583-591 (Sep-Oct 1998), 3T1132

Lock-on of vortex shedding due to rotational oscillations of a flat plate in a uniform stream, J Fluids Struct **12**(6) 779-798 (Aug 1998), 4A1061

Low-dimensional control of the circular cylinder wake, J Fluid Mech **371** 157-178 (Sep 1998), 4A1180

Low-frequency unsteadiness in the wake of a normal flat plate, J Fluid Mech **370** 101-147 (Sep 1998), 4A1181

Localized asymptotic solutions of the Navier-Stokes equations and laminar wakes in an incompressible fluid, J Appl Math Mech **62**(3) 389-396 (1998), 5A1055

Role played by the interfacial shear in the instability mechanism of a viscous liquid jet surrounded by a viscous gas in a pipe, J Fluid Mech **376** 37-51 (Dec 1998), 6A1269

Axisymmetric Prandtl-Batchelor eddy behind a circular disc in a uniform stream, J Fluid Mech **377** 253-266 (Dec 1998), 7A1063

Flow control with noncircular jets, Annu Rev Fluid Mech **31** 239-272 (1999), 7A1064

Shear instability inhibition in a cylinder wake by local injection of a viscoelastic fluid, Phys Fluids **11**(2) 494-496 (Feb 1999), 7T1065

Energy distribution in modes in the wake of a finite-length cylinder before and after transition, J Fluids Struct **13**(1) 143-152 (Jan 1999), 8T1137

Enhancement of 3D instability of free shear layers, J Fluid Mech **379** 23-38 (Jan 1999), 8A1138

Note on phase-locked states at low Reynolds numbers, J Fluids Struct **13**(1) 153-158 (Jan 1999), 8A1139

Series in $1/\sqrt{Re}$ to represent the Strouhal-Reynolds number relationship of the cylinder wake, J Fluids Struct **12**(8) 1073-1085 (Nov 1998), 8T1140

Spatio-temporal structure of cylinder wakes, Exp Fluids **26**(3) 188-196 (Feb 1999), 8A1141

Three-dimensional Floquet instability of the wake of square cylinder, Phys Fluids **11**(3) 560-578 (Mar 1999), 8A1175

Unstable asymmetric modes of a liquid jet, J Fluids Eng **121**(2) 379-383 (Jun 1999), 9A1225

Analysis of mixing in 3D time-periodic cavity flows, J Fluid Mech **386** 149-166 (May 1999), 11A144

Core instabilities and "bridging" in the first pairing of plane mixing layers, Phys Fluids **11**(6) 1688-1690 (Jun 1999), 11A1215

Natural convection flow far from a horizontal plate, J Fluid Mech **387** 227-254 (May 1999), 11A1357

Mode development in the developing region of a plane jet, Phys Fluids **11**(7) 1847-1857 (Jul 1999), 12A1184

368C. Laminar compressible

Theoretical and experimental investigations on instability of an electrically charged liquid jet, Int J Multiphase Flow **24**(4) 605-615 (Jun 1998), 1A1218
Compressible plume dynamics and stability, J Fluid Mech **369** 125-149 (Aug 1998), 3A1134
Transient turbulent gaseous fuel jets for diesel engines, J Fluids Eng **121**(1) 93-101 (Mar 1999), 7A1066
Shock-induced flow resonance in supersonic jets of complex geometry, Phys Fluids **11**(3) 692-709 (Mar 1999), 8A1142

368D. Turbulent incompressible

Physical analysis of the transition to turbulence in the wake of a circular cylinder by 3D Navier-Stokes simulation, J Fluid Mech **365** 23-88 (Jun 1998), 1A1181
Approach towards self-preservation of turbulent cylinder and screen wakes, Exp Thermal Fluid Sci **17**(4) 277-284 (Aug 1998), 1A1182
Dynamics of interaction modes in excited annular jets, Exp Thermal Fluid Sci **17**(4) 319-338 (Aug 1998), 1T1183
Mean velocity and turbulence characteristics of water flow in the bubble dispersion region induced by plunging water jet, Int J Multiphase Flow **24**(4) 523-537 (Jun 1998), 1A1186
Particle dispersion in a turbulent round jet, Exp Thermal Fluid Sci **18**(1) 11-26 (Sep 1998), 2A1139
Effect of Reynolds number on a turbulent far-wake, Exp Fluids **25**(2) 118-125 (Jul 1998), 2A1173
Generalized study of erosion by circular horizontal turbulent jets, J Hydraul Res **36**(4) 613-635 (1998), 2A1174
Self-similarity of time-evolving plane wakes, J Fluid Mech **367** 255-289 (Jul 1998), 2A1175
Solid-free-surface juncture boundary layer and wake, Exp Fluids **25**(4) 283-297 (Sep 1998), 3A1133
Theoretical and experimental study on the conical swirling water jet flow, J Hydrodyn **10**(3) 80-90 (1998), 4T1163
Experimental and numerical study of flat momentumless wake, Int J Heat Fluid Flow **19**(6) 608-622 (Dec 1998), 4A1210
Measurements of a confined jet, Phys Fluids **10**(12) 3137-3144 (Dec 1998), 5A1056
Spreading of slotted jets, Exp Thermal Fluid Sci **18**(3) 210-219 (Nov 1998), 5T1057
Statistical study of anisotropic anomalous behavior of a cylinder wake, Exp Fluids **26**(1-2) 161-168 (Jan 1999), 6A1253
Taylor and Lagrange correlations in a turbulent free shear layer, Exp Fluids **26**(1-2) 1-6 (Jan 1999), 6A1254
Toward a vortex breakdown condition for swirling annular jets, J Fluids Eng **121**(1) 102-105 (Mar 1999), 7A958
Flow control with noncircular jets, Annu Rev Fluid Mech **31** 239-272 (1999), 7A1064
Concentration profiles in shallow turbulent wakes, J Fluids Eng **121**(1) 34-43 (Mar 1999), 7A1067
Generic centerline velocity decay curve for initially turbulent axisymmetric jets, J Fluids Eng **121**(1) 80-85 (Mar 1999), 7A1068
Instantaneous, quantitative measurements of molecular mixing in the axisymmetric jet near field, Phys Fluids **11**(2) 403-416 (Feb 1999), 7A1069
pdf description of turbulent axisymmetric free jet flow, J Fluids Eng **121**(1) 73-79 (Mar 1999), 7A1070
Vortex interaction in the formation region of a grooved circular cylinder, Fluid Dyn Res **24**(3) 161-183 (Mar 1999), 7A1072
Spectra and critical Grashof numbers for turbulent transition in a thermal plume, J Thermophys Heat Transfer **13**(1) 82-90 (Jan-Mar 1999), 7A1234
Ultrasound scattering from a turbulent round thermal pure plume, Exp Thermal Fluid Sci **18**(4) 271-281 (Dec 1998), 8T322
Effect of particle existence on low Reynolds number gas-particle free jet: Re = 800, JSME Int J Ser B **42**(1) 9-15 (Feb 1999), 8A1078
Spatio-temporal structure of cylinder wakes, Exp Fluids **26**(3) 188-196 (Feb 1999), 8A1141
Experimental study on a wake behind a torus using the UVP monitor, Exp Fluids **26**(3) 197-207 (Feb 1999), 8A1143
Numerical simulations of wake structure generated by rotating blades using a time marching, free vortex blob method, Eur J Mech B **18**(1) 147-159 (Jan-Feb 1999), 8A1253
Cavity outflow from a nearly horizontal pipe, Int J Multiphase Flow **25**(2) 349-364 (Mar 1999), 9T1175
Energy concentrated and self-resonating mini-extended jet nozzle used for jet drilling, J Fluids Eng **121**(2) 391-395 (Jun 1999), 9A1207
Experimental investigations of steady flow in a tube with circumferential wall cavity, J Fluids Eng **121**(2) 405-409 (Jun 1999), 9A1285
Dynamic character of the hemisphere-cylinder wake, Exp Fluids **26**(5) 415-422 (Apr 1999), 10A1198
Numerical simulation and measurement of turbulent jet with free surface, J Hydrodyn **11**(1) 73-78 (1999), 10T1203
Aerodynamics of cooling of blown film bubbles, J Reinforced Plastics Composites **18**(6) 529-538 (1999), 11A1216
Concentration field of multiple circular turbulent jets, J Hydraul Res **37**(2) 249-256 (1999), 11A1217
Double-helical pairing in plane mixing layers, Phys Fluids **11**(6) 1691-1693 (Jun 1999), 11T1218
Large vortex structures behind a maneuvering body in stratified fluids, Phys Fluids **11**(6) 1682-1684 (Jun 1999), 11A1219
Perturbation study of particle dynamics in a plane wake flow, J Fluid Mech **384** 1-26 (Apr 1999), 11A1220
Two parallel jets: comparison of the performance of three turbulence models, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 379-391 (1998), 11A1221
Optimization of viscous mixing in a 2D cavity transfer mixer, Flow Turbulence Combust **60**(4) 377-407 (1998), 12A116
Fluid behavior of side-by-side circular cylinders in steady cross-flow, J Fluids Struct **13**(3) 309-338 (Apr 1999), 12A245
Effect of Schmidt number on turbulent scalar mixing in a jet-in-crossflow, Int J Heat Mass Transfer **42**(20) 3727-3738 (Oct 1999), 12A1159
Flow limitation in uniform thick-walled collapsible tubes, J Fluids Struct **13**(3) 399-418 (Apr 1999), 12T1160
Numerical investigation of heat transfer under confined impinging turbulent slot jets, Numer Heat Transfer A **35**(8) 903-924 (Jun 1999), 12A1161
Scaling laws for the turbulent mixing of a passive scalar in the wake of a cylinder, Phys Fluids **11**(7) 1869-1879 (Jul 1999), 12A1162
Estimates of roughness parameters for arrays of obstacles, Boundary-Layer Meteorol **91**(1) 1-22 (Apr 1999), 12A1556

368E. Turbulent compressible

Observation of pressure waves around a shallow cavity, J Sound Vib **214**(4) 771-778 (Jul 1998), 1A1184
Forcing of compressible mixing layers using laser excitation, AIAA J **36**(9) 1730-1732 (Sep 1998), 2T1176
Asymptotic spreading rate of initially compressible jets: Experiment and analysis, Phys Fluids **10**(10) 2652-2660 (Oct 1998), 4A1182
Parametrizing the growth rate influence of the velocity ratio in compressible reacting mixing layers, Phys Fluids **10**(10) 2686-2688 (Oct 1998), 4A1183
Interferometric measurement and tomography of the density field of supersonic jets, Exp Fluids **25**(5-6) 375-387 (Oct 1998), 5A980
Mixing enhancement in high-speed turbulent shear layers using excited coherent modes, AIAA J **36**(11) 2027-2035 (Nov 1998), 5A1058
Experimental analysis of intermittent coherent structures in the near field of a high Re turbulent jet flow, Phys Fluids **11**(2) 423-431 (Feb 1999), 7A1102
Experimental studies of tab geometry effects on mixing enhancement of an axisymmetric jet, JSME Int J Ser B **41**(4) 908-917 (Nov 1998), 8A1144
Turbulent wall jet flowing over a circular cylinder, J Fluid Mech **381** 1-25 (Feb 1999), 8A1145
Direct computation of the sound generated by vortex pairing in an axisymmetric jet, J Fluid Mech **383** 113-142 (Mar 1999), 10A332
Computational study of hypersonic transitional wake flow, J Thermophys Heat Transfer **13**(2) 236-242 (Apr-Jun 1999), 10A1199
Spreading characteristics of compressible jets from nozzles of various geometries, J Fluid Mech **383** 197-228 (Mar 1999), 10A1200
Direct numerical simulation of a confined 3D gas mixing layer with one evaporating hydrocarbon-droplet-laden stream, J Fluid Mech **384** 293-338 (Apr 1999), 11A1222
Smoke transport by sheared winds, Combustion Theory Model **3**(2) 323-341 (Jun 1999), 12A1163
Visualization of high-speed gas jets and their airblast sprays of cross-injected liquid, Exp Fluids **27**(1) 102-106 (Jun 1999), 12A1164

368F. Stratification

Compressible plume dynamics and stability, J Fluid Mech **369** 125-149 (Aug 1998), 3A1134
Near-field of coaxial jets with large density differences, Exp Fluids **26**(1-2) 97-106 (Jan 1999), 6A1256
Experimental study of the behavior of confined variable density jets in a time varying crossflow, J Fluids Eng **121**(1) 65-72 (Mar 1999), 7A1073
Gravity currents descending a ramp in a stratified tank, J Fluid Mech **379** 39-70 (Jan 1999), 8A1014
Onset of stationary and oscillatory convection in a titled porous cavity saturated with a binary fluid: Linear stability analysis, Phys Fluids **11**(6) 1346-1358 (Jun 1999), 11A1112
Large vortex structures behind a maneuvering body in stratified fluids, Phys Fluids **11**(6) 1682-1684 (Jun 1999), 11A1219
Use of simultaneous IR temperature measurements and DPIV to investigate thermal plumes in a thick layer cooled from above, Exp Fluids **27**(1) 70-78 (Jun 1999), 12A1165

368H. Rotating fluids or surfaces

Use and characteristics of vortical flows near a generating aerodynamic surface: A perspective, Prog Aerospace Sci **34**(3-4) 167-217 (Mar-Apr 1998), 2A1217
Free Surface Flows with Viscosity (Comput Mech, Billerica MA, 1998) 9N12

368I. Jet-solid surface interaction

Experimental investigation of a parallel vortex-plate interaction, J Fluids Struct **12**(3) 295-314 (Apr 1998), 1A1094
Numerical study of oscillation mechanism in underexpanded jet impinging on plate, J Fluids Eng **120**(3) 477-481 (Sep 1998), 1A1185
Experimental comparison of liquid jet array and spray impingement cooling in the non-boiling regime, Exp Thermal Fluid Sci **18**(1) 1-10 (Sep 1998), 2A1177
Jets in ground effect with a crossflow, AIAA J **36**(9) 1737-1740 (Sep 1998), 2T1178
Mixing in a confined turbulent impinging jet using planar laser-induced fluorescence, Exp Fluids **25**(2) 143-150 (Jul 1998), 2A1179
Turbulence measurements of a longitudinal vortex generated by an inclined jet in a turbulent boundary layer, J Fluids Eng **120**(4) 765-771 (Dec 1998), 3A1114
Fluid dynamic drag of an axially symmetrical bluff body consisting of a plane surface and a spherical surface, J Fluids Eng **120**(4) 851-853 (Dec 1998), 3A1117
Impulsive blocking of a vortex-jet, J Fluid Mech **369** 301-331 (Aug 1998), 3A1135
Turbulent flow through spacer grids in rod bundles, J Fluids Eng **120**(4) 786-791 (Dec 1998), 3A1136
Wall flow generated by a group of jets impinging on a plane surface, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 373-378 (Jun 1998), 3A1137
Numerical simulation of circular disks entering the free surface of a fluid, Phys Fluids **10**(10) 2489-2499 (Oct 1998), 4T1184
Numerical study on nozzle underexpanded impinging jet flows and its complex wave fields (Chinese), J Xi'an Jiaotong Univ **32**(11) 68-71 (1998), 5A1059
Experimental modeling of circular hydraulic jump by the impingement of a water column on a horizontal disk, J Fluids Eng **121**(1) 86-92 (Mar 1999), 7A1071
Vortex interaction in the formation region of a grooved circular cylinder, Fluid Dyn Res **24**(3) 161-183 (Mar 1999), 7A1072
Simulation of 3D flow around a square cylinder at moderate Reynolds numbers, Phys Fluids **11**(2) 288-306 (Feb 1999), 7T1075
Experimental study on a wake behind a torus using the UVP monitor, Exp Fluids **26**(3) 197-207 (Feb 1999), 8A1143
Turbulent wall jet flowing over a circular cylinder, J Fluid Mech **381** 1-25 (Feb 1999), 8A1145
Mechanism of jet-flutter: Self-induced oscillation of an upward plane jet impinging of a free surface, JSME Int J Ser B **41**(3) 610-617 (Aug 1998), 8A1146
Cavity outflow from a nearly horizontal pipe, Int J Multiphase Flow **25**(2) 349-364 (Mar 1999), 9T1175
Near surface characterization of an impinging elliptic jet array, J Fluids Eng **121**(2) 384-390 (Jun 1999), 9A1208
Secondary vortex streets in 2D cylinder wakes, Fluid Dyn Res **25**(1) 1-18 (Jul 1999), 11A1126
Aspect ratio condition for the buckling and folding of polymeric jets in injection mold filling, Comput Assisted Mech Eng Sci **5**(3) 227-243 (1998), 11A1223
Impact of an ideal fluid jet on a curved wall: The inverse problem, Eur J Mech B **18**(2) 283-294 (Mar-Apr 1999), 11A1224
Experiments with large diameter gravity driven impacting liquid jets, Exp Fluids **27**(1) 60-69 (Jun 1999), 12A1166

368J. Jet-flow interaction

Modeling of supersonic mixing and shock-wave structure in two jets interaction, Indian J Eng Mat Sci **5**(3) 97-105 (Jun 1998), 1A1128
Spray jets in a cross-flow, J Fluid Mech **365** 109-136 (Jun 1998), 1A1153
Mean velocity and turbulence characteristics of water flow in the bubble dispersion region induced by plunging water jet, Int J Multiphase Flow **24**(4) 523-537 (Jun 1998), 1A1186
TAR model for calculation of droplet-wall impingement, J Fluids Eng **120**(3) 593-597 (Sep 1998), 1A1187
Thickness variation of a liquid sheet formed by two impinging jets using holographic interferometry, J Fluids Eng **120**(3) 482-487 (Sep 1998), 1A1188
Experiments on flow around a cylinder; the velocity and vorticity fields, J Hydraul Res **36**(4) 637-653 (1998), 2T1096
Scaling the near-field centerline mixing behavior of axisymmetric turbulent jets, AIAA J **36**(9) 1635-1642 (Sep 1998), 2A1180
Duty-cycle effects on penetration of fully modulated, turbulent jets in crossflow, AIAA J **36**(10) 1935-1937 (Oct 1998), 3T1138
Experimental investigation of a confined heated sodium jet in a co-flow, J Fluid Mech **368** 51-79 (Aug 1998), 3A1139
Experimental investigations of free-surface aeration in the developing flow of 2D water jets, J Fluids Eng **120**(4) 738-744 (Dec 1998), 3A1140
Flow field behavior at exit of film cooling hole (Chinese), J Xi'an Jiaotong Univ **32**(7) 46-50 (1998), 3A1141
Mixing and spray formation in coaxial jets, J Propulsion Power **14**(5) 807-817 (Sep-Oct 1998), 3A1142
Vortex pairing in an axisymmetric jet using two-frequency acoustic forcing at low to moderate Strouhal numbers, Exp Fluids **25**(4) 305-315 (Sep 1998), 3A1143
Impinging free jets of ideal fluid, J Fluid Mech **372** 357-374 (Oct 1998), 4A1185
Numerical investigation of flow structure and bifurcation phenomena of confined plane twin-jet flows, Phys Fluids **10**(11) 2910-2921 (Nov 1998), 4A1186
Role of surface disturbances in the entrainment of bubbles by a liquid jet, J Fluid Mech **372** 189-212 (Oct 1998), 4A1187
Spreading of slotted jets, Exp Thermal Fluid Sci **18**(3) 210-219 (Nov 1998), 5T1057
Wall pressure measurements for a sonic jet injected transversely into a supersonic crossflow, J Propulsion Power **14**(6) 861-868 (Nov-Dec 1998), 5A1060
Influence of a counter rotating vortex pair on the stability of a jet in a cross flow: An experimental study by flow visualizations, Exp Fluids **26**(1-2) 63-74 (Jan 1999), 6A1255
Near-field of coaxial jets with large density differences, Exp Fluids **26**(1-2) 97-106 (Jan 1999), 6A1256
Simulating vortex pairs interacting with mixing-layer vortices, Fluid Dyn Res **24**(2) 61-79 (Feb 1999), 6A1257
Experimental study of the behavior of confined variable density jets in a time varying crossflow, J Fluids Eng **121**(1) 65-72 (Mar 1999), 7A1073
Mechanism of jet-flutter: Self-induced oscillation of an upward plane jet impinging of a free surface, JSME Int J Ser B **41**(3) 610-617 (Aug 1998), 8A1146
Large-eddy simulations of a round jet in crossflow, J Fluid Mech **379** 71-104 (Jan 1999), 8A1147
Management of a stronger wall jet by an embedded streamwise vortex: Reynolds stresses distributions and evaluation of the vorticity transport equation, JSME Int J Ser B **42**(1) 1-8 (Feb 1999), 8T1148
Investigations of 3D turbulent flow inside and around a water-jet intake duct under different operating conditions, J Fluids Eng **121**(2) 396-404 (Jun 1999), 9A1191
Jets in crossflow: Effects of geometry and blowing ratio, J Fluids Eng **121**(2) 373-378 (Jun 1999), 9A1209
Interaction of von Karman vortices and intersecting main streams in staggered tube bundles, Exp Fluids **26**(5) 389-396 (Apr 1999), 10A1201
Inverted-profile coaxial jet flows relevant to Astovl applications, Aeronaut J **102**(1017) 377-384 (Aug-Sep 1998), 10A1202
Numerical simulation and measurement of turbulent jet with free surface, J Hydrodyn **11**(1) 73-78 (1999), 10T1203
Practical method to predict fluctuating pressure induced by a propeller operating in wake field and its validation, J Hydrodyn **11**(1) 88-96 (1999), 10T1255
Pulsed radial jet reattachment nozzle, Int J Heat Mass Transfer **42**(15) 2921-2933 (Aug 1999), 10A1298
Mixing of multiple jets with a confined subsonic crossflow - Part II: Opposed rows of orifices in rectangular ducts, J Eng Gas Turbines Power **121**(3) 551-562 (Jul 1999), 10A1466

Single drop impact onto liquid films: Neck distortion, jetting, tiny bubble entrainment, and crown formation, J Fluid Mech **385** 229-254 (Apr 1999), 11A1178
Concentration field of multiple circular turbulent jets, J Hydraul Res **37**(2) 249-256 (1999), 11A1217
Dynamics of large-scale structures for jets in a crossflow, J Turbomachinery **121**(3) 577-587 (Jul 1999), 11A1225
Experimental investigation on thermal striping mixing phenomena of a vertical non-buoyant jet with two adjacent buoyant jets as measured by ultrasound Doppler velocimetry, Nucl Eng Des **188**(1) 49-73 (Apr 1999), 11A1226
Jet control by counterflow, Comptes Rendus L'Acad Sci Serie II **327**(6) 589-595 (Jun 1999), 11A1227
Flow field characterization of a jet and vortex actuator, Exp Fluids **27**(1) 12-20 (Jun 1999), 12A438
Structure and dynamics of the wake of bubbles and its relevance for bubble interaction, Phys Fluids **11**(7) 1781-1796 (Jul 1999), 12T1127
Experimental study on the effects of air entrainment on a plane jet diffusion in a plunge pool, J Hydrodyn **11**(2) 32-37 (1999), 12T1167
Jets and free stream interaction around a low-Reynolds-number airfoil leading edge, Numer Heat Transfer A **35**(8) 891-902 (Jun 1999), 12A1168

368K. Heat or mass addition

Experimental comparison of liquid jet array and spray impingement cooling in the non-boiling regime, Exp Thermal Fluid Sci **18**(1) 1-10 (Sep 1998), 2A1177
Surface flow visualization using the thermal wakes of small heated spots, Exp Fluids **25**(2) 104-107 (Jul 1998), 2A1181
Unsteady convective exchange flows in cavities, J Fluid Mech **368** 127-153 (Aug 1998), 3A1144
Gas-assisted laser repetitive pulsed heating of a steel surface, Proc Inst Mech Eng C **212**(C8) 741-757 (1998), 6A1258
Concentration profiles in shallow turbulent wakes, J Fluids Eng **121**(1) 34-43 (Mar 1999), 7A1067
Particle dispersion enhancement in the near region of a forced jet, J Propulsion Power **15**(2) 266-271 (Mar-Apr 1999), 8A1149
Jets in crossflow: Effects of geometry and blowing ratio, J Fluids Eng **121**(2) 373-378 (Jun 1999), 9A1209
Simultaneous temperature and 2D velocity measurements in a turbulent heated jet using combined laser-induced fluorescence and LDA, Exp Fluids **26**(4) 315-323 (Mar 1999), 9A1210
Local and instantaneous heat transfer characteristics of arrays of pulsating jets, J Heat Transfer **121**(2) 341-348 (May 1999), 9A1322
Experimental and numerical studies of heat transfer from a liquid bath due to an impinging gas jet, J Heat Transfer **121**(2) 333-340 (May 1999), 9A1339
Direct numerical simulation of a confined 3D gas mixing layer with one evaporating hydrocarbon-droplet-laden stream, J Fluid Mech **384** 293-338 (Apr 1999), 11A1222
Direct numerical simulation of turbulent flows with cloud-like off-source heating, J Fluid Mech **385** 199-228 (Apr 1999), 11A1228
Stability of multiple steady states of convection in laterally heated cavities, J Fluid Mech **388** 315-334 (Jun 1999), 12A1307

368L. Nonequilibrium and chemical effects

Experimental investigation of a confined heated sodium jet in a co-flow, J Fluid Mech **368** 51-79 (Aug 1998), 3A1139
Three-dimensional Monte Carlo simulations of plume impingement, J Thermophys Heat Transfer **13**(2) 226-235 (Apr-Jun 1999), 10A1204

368Y. Computational techniques

Observation of pressure waves around a shallow cavity, J Sound Vib **214**(4) 771-778 (Jul 1998), 1A1184
Numerical study of oscillation mechanism in underexpanded jet impinging on plate, J Fluids Eng **120**(3) 477-481 (Sep 1998), 1A1185
New finite difference scheme for 2D flows at large Re, J Hydrodyn **10**(2) 60-73 (1998), 2T76
Self-similarity of time-evolving plane wakes, J Fluid Mech **367** 255-289 (Jul 1998), 2A1175
Numerical simulation of circular disks entering the free surface of a fluid, Phys Fluids **10**(10) 2489-2499 (Oct 1998), 4T1184
Study of the effect of the non-orthogonality for non-staggered grids: The theory, Int J Numer Methods Fluids **28**(9) 1265-1280 (Dec 1998), 5A1061
Computation of vortex shedding and radiated sound for a circular cylinder: Subcritical to transcritical Reynolds numbers, Theor Comput Fluid Dyn **12**(4) 233-253 (Dec 1998), 6A1259
Numerical simulation of liquid jet holding a cylinder, Int J Comput Fluid Dyn **10**(4) 315-320 (1998), 6T1260
Inviscid spatial stability of a developing supersonic axisymmetric mixing layer, AIAA J **37**(1) 23-28 (Jan 1999), 7A1074
Simulation of 3D flow around a square cylinder at moderate Reynolds numbers, Phys Fluids **11**(2) 288-306 (Feb 1999), 7T1075
Asymptotic analysis of compound liquid jets at low Reynolds numbers, Appl Math Comput **100**(2-3) 223-240 (May 1999), 8A1150
Study of the effect of the non-orthogonality for non-staggered grids - The results, Int J Numer Methods Fluids **29**(6) 625-644 (Mar 1999), 8A1151
Numerical simulations of wake structure generated by rotating blades using a time marching, free vortex blob method, Eur J Mech B **18**(1) 147-159 (Jan-Feb 1999), 8A1253
Thirtieth Anniversary Symposium of the Japan Society of Fluid Mechanics held on July 31, 1998 at Kogakuin University in Tokyo, Fluid Dyn Res **24**(6) 315-404 (Jun 1999), 10A7
Direct numerical simulation of turbulent flows with cloud-like off-source heating, J Fluid Mech **385** 199-228 (Apr 1999), 11A1228
Iterated stretching of viscoelastic jets, Phys Fluids **11**(7) 1717-1737 (Jul 1999), 12A587
Numerical simulation for early development of wake vortices behind a semicircular-section cylinder, J Hydrodyn **11**(2) 84-87 (1999), 12T1169
Performance of a three-component vorticity probe in a turbulent far-wake, Exp Fluids **27**(1) 21-30 (Jun 1999), 12A1170
Simulation of the evolution of concentrated shear layers in a Maxwell fluid with a fast high-resolution finite-difference scheme, J Non-Newtonian Fluid Mech **84**(2-3) 275-287 (Aug 1999), 12A1171

368Z. Experimental techniques

Observation of pressure waves around a shallow cavity, J Sound Vib **214**(4) 771-778 (Jul 1998), 1A1184
Thickness variation of a liquid sheet formed by two impinging jets using holographic interferometry, J Fluids Eng **120**(3) 482-487 (Sep 1998), 1A1188
Mixing in a confined turbulent impinging jet using planar laser-induced fluorescence, Exp Fluids **25**(2) 143-150 (Jul 1998), 2A1179
Scaling the near-field centerline mixing behavior of axisymmetric turbulent jets, AIAA J **36**(9) 1635-1642 (Sep 1998), 2A1180
Surface flow visualization using the thermal wakes of small heated spots, Exp Fluids **25**(2) 104-107 (Jul 1998), 2A1181
Application of rainbow schlieren deflectometry for concentration measurements in an axisymmetric helium jet, Exp Fluids **25**(2) 89-95 (Jul 1998), 2A1182
Mixing of coaxial jets with small annular area in a short duct, AIAA J **36**(9) 1740-1742 (Sep 1998), 2T1183
Experimental investigations of free-surface aeration in the developing flow of 2D water jets, J Fluids Eng **120**(4) 738-744 (Dec 1998), 3A1140
Vortex pairing in an axisymmetric jet using two-frequency acoustic forcing at low to moderate Strouhal numbers, Exp Fluids **25**(4) 305-315 (Sep 1998), 3A1143
Flow characteristics of a confined square jet with mixing tabs, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 63-76 (1998), 4A1188
Interferometric measurement and tomography of the density field of supersonic jets, Exp Fluids **25**(5-6) 375-387 (Oct 1998), 5A980
Measurements of a confined jet, Phys Fluids **10**(12) 3137-3144 (Dec 1998), 5A1056
Effect of time-varying wake flow characteristics behind flat plates, AIAA J **36**(11) 2036-2043 (Nov 1998), 5A1147
Dynamics of viscoelastic jets of polymeric liquid extrudate, J Non-Newtonian Fluid Mech **81**(1-2) 105-132 (Feb 1999), 6A1261
Pressure-velocity correlation of steady and oscillating flows in regenerators made of wire screens, J Fluids Eng **121**(1) 52-56 (Mar 1999), 7A1076
High speed optical tomography system for quantitative measurement and visualization of dynamic features in a round jet, Exp Fluids **26**(3) 249-256 (Feb 1999), 8A1152
Near exit plane effects caused by primary and primary-plus-secondary tabs, AIAA J **37**(2) 192-201 (Feb 1999), 8A1153
Shear layer instability induced separation control, AIAA J **37**(3) 386-388 (Mar 1999), 8T1154
Energy concentrated and self-resonating mini-extended jet nozzle used for jet drilling, J Fluids Eng **121**(2) 391-395 (Jun 1999), 9A1207
Simultaneous temperature and 2D velocity measurements in a turbulent heated jet using combined laser-induced fluorescence and LDA, Exp Fluids **26**(4) 315-323 (Mar 1999), 9A1210
Fluid motion in ultrasonic flowmeter cavities, J Fluids Eng **121**(2) 422-426 (Jun 1999), 9A1304
Two parallel jets: comparison of the performance of three turbulence models, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 379-391 (1998), 11A1221
Visualization of high-speed gas jets and their airblast sprays of cross-injected liquid, Exp Fluids **27**(1) 102-106 (Jun 1999), 12A1164
Use of simultaneous IR temperature measurements and DPIV to investigate thermal plumes in a thick layer cooled from above, Exp Fluids **27**(1) 70-78 (Jun 1999), 12A1165
Experiments with large diameter gravity driven impacting liquid jets, Exp Fluids **27**(1) 60-69 (Jun 1999), 12A1166
Free-flight experiment and numerical simulation for cold thruster plume, J Propulsion Power **15**(3) 417-423 (May-Jun 1999), 12A1172

370. FLOW STABILITY

370A. General theory

Instabilities of conical flows causing steady bifurcations, J Fluid Mech **366** 33-85 (Jul 1998), 1A116
Equilibrium modes and their stability in the small-gap Taylor problem by a new method, Phys Fluids **10**(12) 3080-3087 (Dec 1998), 5T1062
Homoclinic saddle-node bifurcations and subshifts in a 3D flow, Arch Rational Mech Anal **145**(4) 291-329 (1998), 6A1262
Thirtieth Anniversary Symposium of the Japan Society of Fluid Mechanics held on July 31, 1998 at Kogakuin University in Tokyo, Fluid Dyn Res **24**(6) 315-404 (Jun 1999), 10A7
Low-order parabolic theory for 2D boundary-layer stability, Phys Fluids **11**(6) 1449-1458 (Jun 1999), 11T1229
Extremum principles for selection in the Saffman-Taylor finger and Taylor-Saffman bubble problems, Phys Fluids **11**(6) 1287-1296 (Jun 1999), 11T1236
Solvability of the nonhomogeneous Orr-Sommerfeld equation with bounded functions on a semi-infinite domain (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 659-664 (Jul 1999), 12A1173
Temporal stability of boundary-free shear flows: The effects of diffusion, Theor Comput Fluid Dyn **13**(2) 77-90 (Jun 1999), 12A1174
Absolute instability of thin wakes in an incompressible-compressible fluid, Theor Comput Fluid Dyn **13**(2) 91-114 (Jun 1999), 12A1183

370B. Solid boundary (internal flow)

Stability of hydromagnetic dissipative Couette flow with non-axisymmetric disturbance, J Fluid Mech **366** 135-158 (Jul 1998), 1A1216
Analytic study of the flow stability of a compressor system (German), Z Angew Math Mech **78**(9) 607-615 (1998), 3A1145
Optimal disturbances and bypass transition in boundary layers, Phys Fluids **11**(1) 134-150 (Jan 1999), 6A1248
Axial instability of a free-surface front in a partially filled horizontal rotating cylinder, Phys Fluids **11**(1) 97-106 (Jan 1999), 6A1266
Stability of plane Couette flow of a granular material, J Fluid Mech **377** 99-136 (Dec 1998), 7A1077
Experiments on the stability of streamwise streaks in plane Poiseuille flow, Phys Fluids **11**(4) 915-930 (Apr 1999), 8A1155
Frequency property about flow-induced oscillation of cavity without flange plate (Chinese), J Dalian Univ Tech **38**(6) 695-699 (Nov 1998), 8A1156
Interactions of three components and subcritical self-sustained amplification of disturbances in plane Poiseuille flow, Phys Fluids **11**(3) 590-601 (Mar 1999), 8A1157
Linear growth in two-fluid plane Poiseuille flow, J Fluid Mech **381** 121-139 (Feb 1999), 8A1158
Stability characteristics of wavy walled channel flows, Phys Fluids **11**(3) 579-589 (Mar 1999), 8A1159
Stability of a two-layer inviscid flow between an elastic layer and a rigid boundary, J Appl Mech **66**(1) 197-203 (Mar 1999), 8A1160
Longwave stability of three-layer plane Poiseuille flow with an inner thin layer: Application to the coextrusion of polymers, Comptes Rendus L'Acad Sci Serie II **327**(2-3) 201-206 (Feb-Mar 1999), 9A1211
Stability analysis of perturbed plane Couette flow, Phys Fluids **11**(5) 1187-1195 (May 1999), 9A1212
Instabilities of steep short-crested surface waves in deep water, Phys Fluids **11**(6) 1679-1681 (Jun 1999), 11T265
Pushing a non-Newtonian fluid in a Hele-Shaw cell: From fingers to needles, Phys Fluids **11**(7) 1757-1767 (Jul 1999), 12A1072
Amplitude property about flow-induced oscillation of cavity without flange plate (Chinese), J Dalian Univ Tech **39**(3) 440-444 (May 1999), 12A1175
Stability of the Hartmann layer, Phys Fluids **11**(8) 2058-2068 (Aug 1999), 12A1229

370C. Solid boundary (external flow)

Stability of a dusty-gas laminar boundary layer on a flat plate, J Fluid Mech **365** 137-170 (Jun 1998), 1A1159
Stability of streamwise streaks and transition thresholds in plane channel flows, J Fluid Mech **365** 269-303 (Jun 1998), 1A1164
Experimental study of the stability of boundary-layer flow along a heated, inclined plate, J Fluid Mech **367** 1-25 (Jul 1998), 2A1184
Secondary instability of cross-flow vortices in Falkner-Skan-Cooke boundary layers, J Fluid Mech **368** 339-357 (Aug 1998), 3A1112
Low-frequency unsteadiness in the wake of a normal flat plate, J Fluid Mech **370** 101-147 (Sep 1998), 4A1181
Influence of rotational and vibrational energy relaxation on boundary-layer stability, J Fluid Mech **372** 93-118 (Oct 1998), 4A1189
Linear stability of 2D steady flow in wavy-walled channels, Fluid Dyn Res **23**(6) 349-370 (Dec 1998), 4A1190
Spatial instabilities of the incompressible attachment-line flow using sparse matrix Jacobi-Davidson techniques, Appl Sci Res **59**(4) 315-329 (1997), 4A1191
Initial-value problem for fully 3D inflectional boundary layer flows, Theor Comput Fluid Dyn **12**(3) 131-148 (Nov 1998), 5A1028
Streamwise absolute instability of a 3D boundary layer at high Reynolds numbers, J Fluid Mech **373** 111-153 (Oct 1998), 5A1029
Complex flow mechanisms in compound meandering channels with overbank flow, J Fluid Mech **376** 221-261 (Dec 1998), 6A1153
Characterization of viscous fingering in a radial Hele-Shaw cell by image analysis, Exp Fluids **26**(1-2) 153-160 (Jan 1999), 6A1179
Entropy-layer instabilities over a blunted flat plate in supersonic-flow, Phys Fluids **11**(1) 7-9 (Jan 1999), 6T1212
Active control of wave instabilities in 3D compressible flows, Theor Comput Fluid Dyn **12**(4) 195-217 (1998), 6A1263
Application of the reduced Navier-Stokes methodology to flow stability of Falkner-Skan class flows, Comput Fluids **28**(3) 307-321 (Mar 1999), 7A1052
Artificial control of the 3D process of T-S waves in boundary-layer transition, JSME Int J Ser B **40**(4) 536-541 (Nov 1997), 8T1103
Local boundary-layer receptivity to a convected free-stream disturbance, J Fluid Mech **378** 291-317 (Jan 1999), 8A1105
Transient period for boundary layer disturbances, J Fluid Mech **381** 89-119 (Feb 1999), 8A1108
Numerical investigation of resonant interactions in adverse-pressure-gradient boundary layers, J Fluid Mech **378** 269-289 (Jan 1999), 8A1120
Nonlinear stability of the oscillatory viscous flow of an incompressible fluid in a curved pipe, J Fluid Mech **379** 145-163 (Jan 1999), 8A1132
Gortler vortices: Are they amenable to local eigenvalue analysis?, Eur J Mech B **18**(1) 47-65 (Jan-Feb 1999), 8A1161
Boundary-layer instability noise on aerofoils, J Fluid Mech **382** 27-61 (Mar 1999), 9A1213
Absolute instability of the attachment-line and swept-Hiemenz boundary layers, Theor Comput Fluid Dyn **13**(1) 57-75 (Apr 1999), 10A1205
Spot concentrations of large-amplitude disturbances in laminar boundary layers, Quart J Mech Appl Math **52**(2) 269-281 (May 1999), 10A1206
Low-order parabolic theory for 2D boundary-layer stability, Phys Fluids **11**(6) 1449-1458 (Jun 1999), 11T1229

370D. Nonlinear theory

Initial-value problem for fully 3D inflectional boundary layer flows, Theor Comput Fluid Dyn **12**(3) 131-148 (Nov 1998), 5A1028
Spouting and planform selection in the Rayleigh-Taylor instability of miscible viscous fluids, J Fluid Mech **377** 27-45 (Dec 1998), 7A1084
Note on nearly 2D weakly nonlinear instability of an incompressible free shear layer, J Fluid Mech **386** 373-377 (May 1999), 11A1230
Nonlinear Instability, Chaos and Turbulence, Volume 1 (Comput Mech, Billerica MA, 1998) 12N28

370G. Non-Newtonian flow

Stability of Taylor-Dean flow of fiber suspensions, Appl Mech Eng **3**(2) 185-204 (1998), 1A1189
Stability of MHD flow of a viscoelastic fluid past a stretching sheet, Acta Mech **130**(1-2) 143-146 (1998), 2A1185

Flow of a viscoelastic fluid between eccentric cylinders: Impact on flow stability, J Non-Newtonian Fluid Mech **80**(1) 59-87 (Dec 1998), 4A529
Mechanism of elastic instability in Couette flow of polymer solutions: Experiment, Phys Fluids **10**(10) 2451-2463 (Oct 1998), 4T1192
Effect of transient viscoelastic properties on interfacial instabilities in superposed pressure driven channel flows, J Non-Newtonian Fluid Mech **80**(2-3) 217-249 (Jan 1999), 5A1066
Linear stability and dynamics of viscoelastic flows using time-dependent numerical simulations, J Non-Newtonian Fluid Mech **82**(1) 57-104 (Apr 1999), 7A490
Computation of 3D turbulent boundary layers using the V2F model, Flow Turbulence Combust **60**(1) 19-46 (1998), 7T1047
Stability of plane Couette flow of a granular material, J Fluid Mech **377** 99-136 (Dec 1998), 7A1077
Sharkskin instability of polymer melt flows, Chaos **9**(1) 154-163 (Mar 1999), 8A1162
Stability of viscoelastic shear flows subjected to steady or oscillatory transverse flow, J Fluid Mech **379** 255-277 (Jan 1999), 8A1163
Saffman-Taylor instability in yield-stress fluids, J Fluid Mech **380** 363-376 (Feb 1999), 8A1172
Longwave stability of three-layer plane Poiseuille flow with an inner thin layer: Application to the coextrusion of polymers, Comptes Rendus L'Acad Sci Serie II **327**(2-3) 201-206 (Feb-Mar 1999), 9A1211
Linear stability of three-layer Poiseuille flow for Oldroyd-B fluids, J Non-Newtonian Fluid Mech **83**(1-2) 71-92 (Jun 1999), 10A1207
Axisymmetric and non-axisymmetric elastic and inertio-elastic instabilities in Taylor-Couette flow, J Non-Newtonian Fluid Mech **83**(1-2) 33-69 (Jun 1999), 10A1210
Direct numerical simulation of hydrodynamic instabilities in 2D and 3D viscoelastic free shear layers, J Non-Newtonian Fluid Mech **83**(3) 249-276 (Jul 1999), 11A1235
Effect of wall slip on the stability of viscoelastic plane shear flow, Phys Fluids **11**(7) 1749-1756 (Jul 1999), 12T1176
Instability of channel flows of elastic liquids having continuously stratified properties, J Non-Newtonian Fluid Mech **85**(2-3) 273-298 (Aug 1999), 12A1177
Torsional flow stability of highly dilute polymer solutions, J Non-Newtonian Fluid Mech **84**(1) 19-44 (Jul 1999), 12A1178

370H. Nonequilibrium and chemical effects

Experimental and theoretical observations of elastic instabilities in eccentric cylinder flows: Local versus global instability, J Non-Newtonian Fluid Mech **80**(1) 1-58 (Dec 1998), 4A1193
Multi-dimensional stability of weak-heat-release detonations, J Fluid Mech **382** 109-135 (Mar 1999), 9A277
Thermal non-equilibrium effect on stabilities of falling liquid films, Int J Heat Mass Transfer **42**(15) 2863-2868 (Aug 1999), 10A1208

370I. Pendant drops

Cauchy problem for a capillary drop - Part I: Irrotational motion, Math Methods Appl Sci **21**(12) 1149-1183 (Aug 1998), 2A1186
Capillary breakup of a viscous thread surrounded by another viscous fluid, Phys Fluids **10**(11) 2758-2764 (Nov 1998), 4A1194
Baroclinic instability in a three layer flow: A wave approach, Dyn Atmos Oceans **28**(3-4) 179-204 (Nov 1998), 6T1264

370J. Stratified flows

Stability of straining flow with surface cooling and temperature-dependent viscosity, J Fluid Mech **365** 369-381 (Jun 1998), 1A1190
Instability of convective cells and genesis of convective structures of different scale, J Fluid Mech **365** 1-22 (Jun 1998), 1A1300
Compressible plume dynamics and stability, J Fluid Mech **369** 125-149 (Aug 1998), 3A1134
Faraday's instability in viscous fluid, J Fluid Mech **368** 195-228 (Aug 1998), 3A1154
Flow-front instability in viscous gravity currents, J Fluid Mech **369** 1-21 (Aug 1998), 3A1155
Transient states during spin-up of a Rayleigh-Benard cell, Phys Fluids **10**(10) 2525-2538 (Oct 1998), 4A1053
Two-fluid boundary layer stability, Phys Fluids **10**(11) 2746-2757 (Nov 1998), 4T1195
Two-fluid Taylor-Couette flow: Experiments and linear theory for immiscible liquids between corotating cylinders, Phys Fluids **10**(12) 3045-3055 (Dec 1998), 5T956
Double diffusive instability in a tall thin slot, J Fluid Mech **375** 203-233 (Nov 1998), 5A1348
Elementary stratified flows with instability at large Richardson number, J Fluid Mech **376** 319-350 (Dec 1998), 6A1265
Characteristics of flow instabilities from unstable stratification of density in channel shear layers at low Reynolds numbers, Int J Heat Mass Transfer **42**(6) 1023-1036 (Mar 1999), 7A1078
Growth of leading-edge distortions on a viscous sheet, Phys Fluids **11**(2) 307-313 (Feb 1999), 7A1079
Linear stability of thermally stratified rotating channel flow, Phys Fluids **11**(2) 439-449 (Feb 1999), 7A1080
Length scale for bubble problem in Rayleigh-Taylor instability, Phys Fluids **11**(4) 940-942 (Apr 1999), 8T1164
Double diffusive instability in an inclined cavity, Phys Fluids **11**(3) 549-559 (Mar 1999), 8A1397
Sheared salt fingers: Instability in a truncated system, Phys Fluids **11**(5) 1161-1168 (May 1999), 9A1214
Three-dimensional Rayleigh-Taylor instability, Phys Fluids **11**(5) 1143-1152 (May 1999), 9A1224
Conditions for the symmetric instability of the vortex motions of an ideal stratified liquid, J Appl Math Mech **62**(6) 921-925 (1999), 10A1209
Convective versus absolute instability in mixed Rayleigh-Benard-Poiseuille convection, J Fluid Mech **384** 243-262 (Apr 1999), 11A1111
Control of long-wavelength Marangoni-Benard convection, J Fluid Mech **387** 321-341 (May 1999), 11A1129
Symmetric and nonsymmetric Holmboe instabilities in an inviscid flow, Phys Fluids **11**(6) 1459-1468 (Jun 1999), 11A1231
Onset of convective instabilities in cylindrical cavities heated from below - Part I: Pure thermal case, Phys Fluids **11**(8) 2078-2088 (Aug 1999), 12T1179

370K. Rotating flows or surfaces

Asymptotic analysis of secondary instabilities of rotating fluids, Z Angew Math Mech **78**(9) 597-606 (1998), 3A1146
Instability of pulsed flows in a Taylor-Couette geometry (French), Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **322**(7) 545-552 (Apr 1996), 3A1147
Nature of the first bifurcation in disk systems, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 359-366 (Jun 1998), 3A1148
Secondary instability in rotating channel flow, J Fluid Mech **368** 27-50 (Aug 1998), 3A1149
Stability of a traveling roll system in a rotating disk flow, Phys Fluids **10**(11) 2695-2697 (Nov 1998), 4T1058
Mechanism of elastic instability in Couette flow of polymer solutions: Experiment, Phys Fluids **10**(10) 2451-2463 (Oct 1998), 4T1192
Two-fluid Taylor-Couette flow: Experiments and linear theory for immiscible liquids between corotating cylinders, Phys Fluids **10**(12) 3045-3055 (Dec 1998), 5T956
Equilibrium modes and their stability in the small-gap Taylor problem by a new method, Phys Fluids **10**(12) 3080-3087 (Dec 1998), 5T1062
New flow regime in a Taylor-Couette flow, Phys Fluids **10**(12) 3233-3235 (Dec 1998), 5T1063
Nonlinear stability of Taylor vortices in infinite cylinders, Arch Rational Mech Anal **144**(2) 121-200 (1998), 5A1064
Numerical study of periodic disturbances on two-layer Couette flow, Phys Fluids **10**(12) 3056-3071 (Dec 1998), 5T1065
Stability analysis of a Taylor-Couette flow of insulating fluid subjected to radial unipolar injection of charge, Phys Fluids **10**(12) 3088-3098 (Dec 1998), 5A1095
Baroclinic instability in a three layer flow: A wave approach, Dyn Atmos Oceans **28**(3-4) 179-204 (Nov 1998), 6T1264
Axial instability of a free-surface front in a partially filled horizontal rotating cylinder, Phys Fluids **11**(1) 97-106 (Jan 1999), 6A1266
Disturbances to a rotating fluid with a sphere moving along the axis of rotation, Appl Math Mech **19**(9) 861-867 (Sep 1998), 6A1267
Surface instabilities of thin liquid film flow on a rotating disk, Exp Fluids **26**(1-2) 75-85 (Jan 1999), 6A1268
Linear stability of thermally stratified rotating channel flow, Phys Fluids **11**(2) 439-449 (Feb 1999), 7A1080
Thermoconvective instability in a rotating magnetic field, Int J Heat Mass Transfer **42**(6) 1037-1045 (Mar 1999), 7A1081
Evolution of a localized vortex disturbance in external shear flows - Part 2: Comparison with experiments in rotating shear flows, J Fluid Mech **379** 351-380 (Jan 1999), 8A991
Stability of oscillatory two-phase Couette flow: Theory and experiment, Phys Fluids **11**(4) 833-844 (Apr 1999), 8A1016
Spiral and circular waves in the flow between a rotating and a stationary disk, Exp Fluids **26**(3) 179-187 (Feb 1999), 8A1021
Mode analysis of Taylor-Couette flow in finite gaps, Z Angew Math Mech **79**(2) 91-96 (1999), 8A1165
Further results on the stability of rapidly rotating vortices in the asymmetric balance formulation, J Atmos Sci **56**(4) 475-482 (Feb 1999), 8A1166
Pulsed gradient spin echo nuclear magnetic resonance measurements of hydrodynamic instabilities with coherent structure: Taylor vortices, Phys Fluids **11**(5) 1104-1113 (May 1999), 9T1215
Secondary instabilities in rapidly rotating fluids: Inertial wave breakdown, J Fluid Mech **382** 283-306 (Mar 1999), 9A1216
Axisymmetric and non-axisymmetric elastic and inertio-elastic instabilities in Taylor-Couette flow, J Non-Newtonian Fluid Mech **83**(1-2) 33-69 (Jun 1999), 10A1210
Experiments on a barotropic rotating shear layer - Part I: Instability and steady vortices, J Fluid Mech **383** 143-173 (Mar 1999), 10A1211
Routes to chaos in wide-gap spherical Couette flow, Phys Fluids **11**(6) 1359-1372 (Jun 1999), 11A154
Shear-flow instability in a rotating fluid, J Fluid Mech **387** 177-204 (May 1999), 11A1232
Three-dimensional destabilization of Stuart vortices: The influence of rotation and ellipticity, J Fluid Mech **387** 205-226 (May 1999), 11A1234
Discussion on stability criterion of inviscid compressible swirling flow (Chinese), J Shanghai Univ **3**(1) 4-6 (Mar 1999), 12A1180

370M. Vortices

IUTAM Symposium on Dynamics of Slender Vortices (Kluwer, Netherlands, 1998) 1N25
Evolution of a perturbed vortex in a pipe to axisymmetric vortex breakdown, J Fluid Mech **366** 211-237 (Jul 1998), 1A1191
Computation and Visualization of Three-Dimensional Vortical and Turbulent Flows (Verlag Vieweg, Wiesbaden, 1998) 2N22
Vortices and Heat Transfer (Verlag Vieweg, Wiesbaden, 1998) 2N33
Analysis of inviscid vortex breakdown in a semi-infinite pipe, Fluid Dyn Res **23**(4) 189-234 (Oct 1998), 2A1077
Unsteady vortex structure over delta-wing subject to transient along-core blowing, AIAA J **36**(9) 1658-1664 (Sep 1998), 2A1187
Axisymmetric breakdown of a Q-vortex in a pipe, AIAA J **36**(10) 1848-1853 (Oct 1998), 3A1150
Bifurcation at Kirchhoff elliptic vertex with eccentricity 2√2/3, Dyn Stability Syst **13**(3) 281-297 (1998), 3A1151
Supersonic vortex breakdown during vortex-cylinder interaction, J Fluid Mech **369** 351-380 (Aug 1998), 3A1152
Experimental study of vortex breakdown in swirling jets, J Fluid Mech **376** 183-219 (Dec 1998), 6A1178
Influence of a counter rotating vortex pair on the stability of a jet in a cross flow: An experimental study by flow visualizations, Exp Fluids **26**(1-2) 63-74 (Jan 1999), 6A1255
Direct measurement of delta-wing vortex circulation, AIAA J **36**(12) 2195-2203 (Dec 1998), 6A1296
Effect of fuselage geometry on delta-wing vortex breakdown, J Aircraft **35**(6) 898-904 (Nov-Dec 1998), 6A1304
Short-wavelength instability of a vortex in a multipolar strain field, Phys Fluids **11**(2) 500-502 (Feb 1999), 7T1082
Reynolds-averaged Navier-Stokes computations of a flap-side-edge flowfield, AIAA J **37**(1) 14-22 (Jan 1999), 7A1117
Evolution of a localized vortex disturbance in external shear flows - Part 2: Comparison with experiments in rotating shear flows, J Fluid Mech **379** 351-380 (Jan 1999), 8A991
Further results on the stability of rapidly rotating vortices in the asymmetric balance formulation, J Atmos Sci **56**(4) 475-482 (Feb 1999), 8A1166
Three-dimensional instability of Burgers and Lamb-Oseen vortices in a strain field, J Fluid Mech **378** 145-166 (Jan 1999), 8A1167
Nonparallel linear stability analysis of Long's vortex, Phys Fluids **11**(5) 1114-1126 (May 1999), 9A1217
Stability of periodically compressed vortices at low Mach number, Phys Fluids **11**(5) 955-957 (May 1999), 9A1218
Stability of steady, helical vortex filaments in a tube, Phys Fluids **11**(5) 1096-1103 (May 1999), 9T1219
Vortex Methods (Kluwer, Norwell, MA, 1997) 10N28
Stability of non-axisymmetric time-periodic vortical flows, Fluid Dyn Res **25**(1) 19-36 (Jul 1999), 11A1233
Three-dimensional destabilization of Stuart vortices: The influence of rotation and ellipticity, J Fluid Mech **387** 205-226 (May 1999), 11A1234
Evolution and saturation of instabilities of 2D isolated circular vortices, J Fluid Mech **388** 217-257 (Jun 1999), 12A1066
Inviscid instability of the Batchelor vortex: Absolute-convective transition and spatial branches, Phys Fluids **11**(7) 1805-1820 (Jul 1999), 12T1181
Three-dimensional stability of a vortex pair, Phys Fluids **11**(8) 2069-2077 (Aug 1999), 12A1182

370P. Free surfaces and interfaces (eg jets)

Nonlinear rupture theory of a thin liquid film with insoluble surfactant, J Fluids Eng **120**(3) 598-604 (Sep 1998), 1A1116
Physical analysis of the transition to turbulence in the wake of a circular cylinder by 3D Navier-Stokes simulation, J Fluid Mech **365** 23-88 (Jun 1998), 1A1181
Stability of straining flow with surface cooling and temperature-dependent viscosity, J Fluid Mech **365** 369-381 (Jun 1998), 1A1190
Effect of dynamic surface tension on the oscillation of slender elliptical Newtonian jets, J Appl Mech **65**(3) 694-704 (Sep 1998), 2A1188
Instability of cylindrical compressible gas jets in viscous liquid streams, Acta Mech **130**(1-2) 95-110 (1998), 2A1189
Spatio-temporal instability in free ultra-thin films, Eur J Mech B **17**(3) 371-384 (May-Jun 1998), 2A1190
Resolution of critical flow regions in inviscid linear and nonlinear instability calculations, J Eng Math **34**(1-2) 111-129 (Jul 1998), 2A1192
Cellular detonation stability - Part 1: A normal-mode linear analysis, J Fluid Mech **368** 229-262 (Aug 1998), 3A255
Flow pattern transition for vertical downward two-phase flow of high viscosity liquid (Chinese), J Xi'an Jiaotong Univ **32**(8) 28-30 (1998), 3A1096
Compressible plume dynamics and stability, J Fluid Mech **369** 125-149 (Aug 1998), 3A1134
Benard-Marangoni convection: Planforms and related theoretical predictions, J Fluid Mech **368** 165-194 (Aug 1998), 3A1153
Faraday's instability in viscous fluid, J Fluid Mech **368** 195-228 (Aug 1998), 3A1154
Flow-front instability in viscous gravity currents, J Fluid Mech **369** 1-21 (Aug 1998), 3A1155
Interactions between a pair of helical waves on an axisymmetric jet, Fluid Dyn Res **23**(5) 267-282 (Nov 1998), 3A1156
Nonlinear evolution of a weakly unstable weve in a free shear flow with a weak parallel magnetic field, J Fluid Mech **369** 217-252 (Aug 1998), 3A1170
Linear instability of a particle-laden mixing layer with a dynamic dispersed phase, Phys Fluids **10**(10) 2539-2557 (Oct 1998), 4A1112
Capillary breakup of a viscous thread surrounded by another viscous fluid, Phys Fluids **10**(11) 2758-2764 (Nov 1998), 4A1194
Combined effect of disk inequality and axial gravity on axisymmetric liquid bridge stability, Phys Fluids **10**(10) 2473-2488 (Oct 1998), 4A1196
Instabilities and singularities in Hele-Shaw flow, Phys Fluids **10**(11) 2701-2723 (Nov 1998), 4A1197
Linear stability analysis of turbulent mixing layers and jets in shallow water layers, J Hydraul Res **36**(5) 815-830 (1998), 4A1198
Liquid sheet instability, Acta Mech **131**(3-4) 153-167 (1998), 4A1199
Nonlinear convective-absolute instabilities in parallel 2D wakes, Phys Fluids **10**(11) 2724-2736 (Nov 1998), 4A1200
Steep nonlinear global modes in spatially developing media, Phys Fluids **10**(10) 2433-2435 (Oct 1998), 4T1201
Study of a high-velocity liquid jet stressed by an electric field, Phys Fluids **10**(11) 2922-2931 (Nov 1998), 4T1202
Velocity measurements in turbulent gaseous mixtures induced by Richtmyer-Meshkov instability, Phys Fluids **10**(11) 2698-2700 (Nov 1998), 4T1203
Viscous fingering in a magnetic fluid - I: Radial Hele-Shaw flow, Phys Fluids **10**(10) 2464-2472 (Oct 1998), 4A1204
Effect of transient viscoelastic properties on interfacial instabilities in superposed pressure driven channel flows, J Non-Newtonian Fluid Mech **80**(2-3) 217-249 (Jan 1999), 5A1066
Front dynamics and fingering of a driven contact line, J Fluid Mech **373** 81-110 (Oct 1998), 5A1067
Instability of a plane conducting free surface submitted to an alternating magnetic field, J Fluid Mech **375** 65-83 (Nov 1998), 5A1091
Modeling of Richtmyer-Meshkov instability-induced turbulent mixing in shock-tube experiments, Phys Fluids **11**(1) 214-225 (Jan 1999), 6A1220
Role played by the interfacial shear in the instability mechanism of a viscous liquid jet surrounded by a viscous gas in a pipe, J Fluid Mech **376** 37-51 (Dec 1998), 6A1269
Vortex dynamics in a spatially accelerating shear layer, J Fluid Mech **376** 1-35 (Dec 1998), 6A1278
Stability of liquid crystalline bridges, Phys Fluids **11**(2) 491-493 (Feb 1999), 7A943
Stability of a stratified viscous shear flow in a titled tube, Phys Fluids **11**(2) 344-355 (Feb 1999), 7A970
Inviscid instability of compressible swirling mixing layers, Phys Fluids **11**(2) 450-461 (Feb 1999), 7A1083
Spouting and planform selection in the Rayleigh-Taylor instability of miscible viscous fluids, J Fluid Mech **377** 27-45 (Dec 1998), 7A1084

Stability analysis of fifth-order water wave models, Physica D **125**(3-4) 222-240 (Jan 1999), 7A1085
Fluid Dynamics at Interfaces (Cambridge UP, New York, 1999) 8N23
Long wave analysis of interfacial wave stability in vertical countercurrent two-phase flow, JSME Int J Ser B **41**(4) 880-887 (Nov 1998), 8T1015
Stability of oscillatory two-phase Couette flow: Theory and experiment, Phys Fluids **11**(4) 833-844 (Apr 1999), 8A1016
Enhancement of 3D instability of free shear layers, J Fluid Mech **379** 23-38 (Jan 1999), 8A1138
Absolute inviscid instability of a ring jet with backflow and swirl, Eur J Mech B **18**(1) 3-12 (Jan-Feb 1999), 8A1168
Bursting of viscous films, Phys Fluids **11**(3) 737-739 (Mar 1999), 8A1169
Hydrodynamics and stability of a deformable body moving in the proximity of interfaces, Phys Fluids **11**(4) 795-806 (Apr 1999), 8A1170
Instabilities arising due to the interaction of a circular jet with a bounding rigid circular shell, Quart J Mech Appl Math **51**(PT1) 141-160 (Feb 1999), 8A1171
Saffman-Taylor instability in yield-stress fluids, J Fluid Mech **380** 363-376 (Feb 1999), 8A1172
Study of cylindrical jet breakup using 1D approximations of the Euler equations, SIAM J Appl Math **59**(1) 286-317 (Sep 1998), 8A1173
Symbolic computation as a tool for high-order long-wave stability analysis of thin film flows with coupled transport processes, J Comput Phys **150**(1) 1-16 (Mar 1999), 8A1174
Three-dimensional Floquet instability of the wake of square cylinder, Phys Fluids **11**(3) 560-578 (Mar 1999), 8A1175
Large-scale instability of a fine-grained turbulent jet, Eur J Mech B **18**(1) 13-34 (Jan-Feb 1999), 8A1183
Effects of insoluble surfactants on the nonlinear deformation and breakup of stretching liquid bridges, Phys Fluids **11**(5) 997-1015 (May 1999), 9T1131
Critical behavior of drop breakup in axisymmetric viscous flow, Phys Fluids **11**(5) 990-996 (May 1999), 9A1170
Asymptotic growth of disturbances from spatially compact source in a skewed mixing layer, Phys Fluids **11**(5) 1153-1160 (May 1999), 9A1220
Effect of surfactant on the stability of a fluid filament embedded in a viscous fluid, J Fluid Mech **382** 331-349 (Mar 1999), 9A1221
Experiments on the Richtmyer-Meshkov instability: Wall effects and wave phenomena, Phys Fluids **11**(5) 1127-1142 (May 1999), 9A1222
Stability of a growing end rim in a liquid sheet of uniform thickness, Phys Fluids **11**(5) 952-954 (May 1999), 9A1223
Three-dimensional Rayleigh-Taylor instability, Phys Fluids **11**(5) 1143-1152 (May 1999), 9A1224
Unstable asymmetric modes of a liquid jet, J Fluids Eng **121**(2) 379-383 (Jun 1999), 9A1225
Nonlinear nearly Wilton ripples between two uniform stream flows, Quart J Mech Appl Math **52**(2) 237-252 (May 1999), 10A290
Linear stability of three-layer Poiseuille flow for Oldroyd-B fluids, J Non-Newtonian Fluid Mech **83**(1-2) 71-92 (Jun 1999), 10A1207
Stability in a fully-developed 2D resuspension flow, Int J Multiphase Flow **25**(3) 501-530 (Apr 1999), 10T1212
Magnetohydrodynamic stability of streaming liquid cylinder with doubly perturbed interfaces having a streaming fluid mantle jet, Arch Mech **50**(4) 715-730 (1998), 10A1235
Cascade of structures in long-wavelength Marangoni instability, Phys Fluids **11**(6) 1484-1494 (Jun 1999), 11A1128
Interactions between pairs of oblique waves in a Bickley jet, Eur J Mech B **18**(2) 227-243 (Mar-Apr 1999), 11T1133
Effect of viscosity on the spherical stability of oscillating gas bubbles, Phys Fluids **11**(6) 1309-1317 (Jun 1999), 11T1182
Core instabilities and "bridging" in the first pairing of plane mixing layers, Phys Fluids **11**(6) 1688-1690 (Jun 1999), 11A1215
Double-helical pairing in plane mixing layers, Phys Fluids **11**(6) 1691-1693 (Jun 1999), 11T1218
Note on nearly 2D weakly nonlinear instability of an incompressible free shear layer, J Fluid Mech **386** 373-377 (May 1999), 11A1230
Symmetric and nonsymmetric Holmboe instabilities in an inviscid flow, Phys Fluids **11**(6) 1459-1468 (Jun 1999), 11A1231
Shear-flow instability in a rotating fluid, J Fluid Mech **387** 177-204 (May 1999), 11A1232
Direct numerical simulation of hydrodynamic instabilities in 2D and 3D viscoelastic free shear layers, J Non-Newtonian Fluid Mech **83**(3) 249-276 (Jul 1999), 11A1235
Extremum principles for selection in the Saffman-Taylor finger and Taylor-Saffman bubble problems, Phys Fluids **11**(6) 1287-1296 (Jun 1999), 11T1236
Flow visualization of Taylor-mode breakup of a viscous liquid jet, Phys Fluids **11**(6) 1331-1341 (Jun 1999), 11A1237
Role of buoyancy in determining the stability of curved mixing layers, Phys Fluids **11**(6) 1495-1501 (Jun 1999), 11T1238
Shear instability in shallow water, J Fluid Mech **387** 97-127 (May 1999), 11A1239
Three-dimensional stability analysis of free surface flows: Application to forward deformable roll coating, J Comput Phys **151**(2) 534-562 (May 1999), 11A1240
Two-way coupled particle-laden mixing layer - Part 1: Linear instability, Int J Multiphase Flow **25**(4) 575-598 (Jun 1999), 11A1241
Primary acoustic instability of flames propagating in tubes: Cases of spray and premixed gas combustion, J Fluid Mech **385** 157-197 (Apr 1999), 11A1482
Temporal stability of boundary-free shear flows: The effects of diffusion, Theor Comput Fluid Dyn **13**(2) 77-90 (Jun 1999), 12A1174
Effect of wall slip on the stability of viscoelastic plane shear flow, Phys Fluids **11**(7) 1749-1756 (Jul 1999), 12T1176
Absolute instability of thin wakes in an incompressible-compressible fluid, Theor Comput Fluid Dyn **13**(2) 91-114 (Jun 1999), 12A1183
Mode development in the developing region of a plane jet, Phys Fluids **11**(7) 1847-1857 (Jul 1999), 12A1184
Critical layer instability as a resonance between a nonsingular mode and continuous modes, Fluid Dyn Res **25**(2) 63-86 (Aug 1999), 12A1546

370Y. Computational techniques

Effect of truncation error on the numerical prediction of linear stability boundaries in a natural circulation single-phase loop, Nucl Eng Des **183**(1-2) 53-76 (Jul 1998), 1A1192
Application of parabolized stability equations to the prediction of jet instabilities, AIAA J **36**(8) 1541-1544 (Aug 1998), 2T1191
Resolution of critical flow regions in inviscid linear and nonlinear instability calculations, J Eng Math **34**(1-2) 111-129 (Jul 1998), 2A1192
Degenerate bifurcation giving rise to a cycle in multiparameter problems in hydrodynamics, J Appl Math Mech **62**(2) 201-206 (1998), 3A1157
Regularized vortex sheet evolution in 3D, J Comput Phys **146**(2) 520-545 (Nov 1998), 4A1031
Spatial instabilities of the incompressible attachment-line flow using sparse matrix Jacobi-Davidson techniques, Appl Sci Res **59**(4) 315-329 (1997), 4A1191
Numerical study of periodic disturbances on two-layer Couette flow, Phys Fluids **10**(12) 3056-3071 (Dec 1998), 5T1065
Application of the reduced Navier-Stokes methodology to flow stability of Falkner-Skan class flows, Comput Fluids **28**(3) 307-321 (Mar 1999), 7A1052
Illustration of the link between ribs and hyperbolic instability, Phys Fluids **11**(2) 497-499 (Feb 1999), 7T1086
Solution of the eigenvalue problems resulting from global non-parallel flow stability analysis, Comput Methods Appl Mech Eng **169**(1-2) 161-176 (Jan 1999), 7A1087
Finite dimensional optimal control of Poiseuille flow, J Guidance Control Dyn **22**(2) 340-348 (Mar-Apr 1999), 8A382
Symbolic computation as a tool for high-order long-wave stability analysis of thin film flows with coupled transport processes, J Comput Phys **150**(1) 1-16 (Mar 1999), 8A1174
Pulsed gradient spin echo nuclear magnetic resonance measurements of hydrodynamic instabilities with coherent structure: Taylor vortices, Phys Fluids **11**(5) 1104-1113 (May 1999), 9T1215
Stability of algorithms for waves with large flows, J Comput Phys **152**(1) 346-358 (Jun 1999), 11A281
Three-dimensional stability analysis of free surface flows: Application to forward deformable roll coating, J Comput Phys **151**(2) 534-562 (May 1999), 11A1240

370Z. Experimental techniques

Experimental study of the stability of boundary-layer flow along a heated, inclined plate, J Fluid Mech **367** 1-25 (Jul 1998), 2A1184
Proportional control of asymmetric forebody vortices, AIAA J **36**(11) 2087-2093 (Nov 1998), 5A1068
Shear layer instability induced separation control, AIAA J **37**(3) 386-388 (Mar 1999), 8T1154
Stability of a shear driven liquid film on curved surfaces during flow separation, Arch Thermodyn **18**(3-4) 5-23 (1997), 10A1213
Mode development in the developing region of a plane jet, Phys Fluids **11**(7) 1847-1857 (Jul 1999), 12A1184

372. TURBULENCE

Bicomponent Newtonian filaments, Phys Fluids **11**(4) 807-820 (Apr 1999), 8A1176

372A. General theory

Lagrangian accelerations in geostrophic turbulence, J Fluid Mech **366** 87-108 (Jul 1998), 1A1200
Local energy flux and subgrid-scale statistics in 3D turbulence, J Fluid Mech **366** 1-31 (Jul 1998), 1A1204
Advances in Turbulence VII (Kluwer, Netherlands, 1998) 2N21
Unification of variational principles for turbulent shear flows: The background method of Doering-Constantin and the mean-fluctuation formulation of Howard-Busse, Physica D **121**(1-2) 175-192 (Oct 1998), 3A1158
Dynamics and statistics of concentrated vortices in turbulent flow, Eur J Mech B **17**(4) 405-675 (Jul-Aug 1998), 3A1162
Fundamentals of Turbulence Modeling (Taylor & Francis, PA, 1998) 4R21
Steady-state Burgers turbulence with large-scale forcing, Phys Fluids **10**(11) 2859-2866 (Nov 1998), 4T1205
Symmetries and the approach to statistical equilibrium in isotropic turbulence, Phys Fluids **10**(11) 2846-2858 (Nov 1998), 4A1206
Lagrangian turbulent dispersion models based on the Langevin equation, Int J Multiphase Flow **24**(6) 913-945 (Sep 1998), 5A1082
Langevin equation for the energy cascade in fully developed turbulence, Physica D **124**(4) 368-381 (Dec 1998), 6A1270
Topics in Fluid Mechanics: Invited lectures given at the International Conference in memory of Professor Carlo Ferrari (Turin, Italy April 3-4, 1998), Meccanica **33**(5) 433-531 (Oct 1998), 6A1271
Turbulent velocity fluctuations need not be Gaussian, J Fluid Mech **376** 139-147 (Dec 1998), 6A1272
Progress in Fluid Flow Research: Turbulence and Applied MHD (AIAA, Reston, VA, 1998) 7N28
Dynamical model for turbulence - IX: Reynolds stresses for shear-driven flows, Phys Fluids **11**(3) 678-691 (Mar 1999), 8T1177
Dynamical model for turbulence - VII: Complete system of five orthogonal tensors for shear-driven flows, Phys Fluids **11**(3) 659-677 (Mar 1999), 8A1178
Dynamical model for turbulence - VIII: IR and UV Reynolds stress spectra for shear-driven flows, Phys Fluids **11**(3) 665-677 (Mar 1999), 8A1179
MEMS applications in turbulence and flow control, Prog Aerospace Sci **35**(2) 101-203 (Feb 1999), 8A1180
Study of the evolution and characteristics of the invariants of the velocity-gradient tensor in isotropic turbulence, J Fluid Mech **381** 141-174 (Feb 1999), 8A1182
Turbulent force as a diffusive field with vortical sources, Phys Fluids **11**(3) 627-635 (Mar 1999), 8A1205
Exact analytic solutions to turbulent particle flow equations, Phys Fluids **11**(5) 1249-1261 (May 1999), 9A1226
Isotropic prestress theory for fully developed channel flows, Phys Fluids **11**(5) 1262-1271 (May 1999), 9T1230
Geometrical alignment properties of a 2D forced turbulence, Physica D **128**(2-4) 169-179 (Apr 1999), 10A1214
High-order structure functions of turbulence, J Fluid Mech **387** 3-37 (May 1999), 11A1242
Infrared pressure spectra in 2D and 3D isotropic incompressible turbulence, Phys Fluids **11**(6) 1535-1543 (Jun 1999), 11A1244
Quadratic Markov modeling for intermittent turbulence, Phys Fluids **11**(6) 1694-1696 (Jun 1999), 11T1263
Nonlinear Instability, Chaos and Turbulence, Volume 1 (Comput Mech, Billerica MA, 1998) 12N28
Bounds for second order structure functions and energy spectrum in turbulence, Phys Fluids **11**(8) 2251-2256 (Aug 1999), 12T1185
Effects of helicity on Lagrangian and Eulerian time correlations in turbulence, Phys Fluids **11**(8) 2288-2290 (Aug 1999), 12T1186
Enstrophy and dissipation must have the same scaling exponent in the high Reynolds number limit of fluid turbulence, Phys Fluids **11**(8) 2202-2204 (Aug 1999), 12A1187
Lagrangian method for multiple correlations in passive scalar advection, Phys Fluids **11**(8) 2178-2186 (Aug 1999), 12T1188
Macroscopic structures of inhomogeneous, Navier-Stokes turbulence, Phys Fluids **11**(8) 2367-2380 (Aug 1999), 12T1189
Magnetic-field generation and turbulence suppression due to cross-helicity effects, Phys Fluids **11**(8) 2307-2316 (Aug 1999), 12T1190
Orientation averages for vortex models of turbulence, Phys Fluids **11**(8) 2381-2386 (Aug 1999), 12A1191
Probability density functions in steady-state Burgers turbulence, Phys Fluids **11**(8) 2143-2148 (Aug 1999), 12T1192
Statistical solution of the Riemann equation and its implications for Burgers turbulence, Phys Fluids **11**(8) 2149-2153 (Aug 1999), 12T1193
Taylor expansions in powers of time of Lagrangian and Eulerian two-point two-time velocity correlations in turbulence, Phys Fluids **11**(8) 2154-2166 (Aug 1999), 12T1194
Random forcing of 3D homogeneous turbulence, Phys Fluids **11**(7) 1880-1889 (Jul 1999), 12A1196
Multiscale velocity correlation in turbulence: Experiments, numerical simulations, synthetic signals, Phys Fluids **11**(8) 2215-2224 (Aug 1999), 12A1216

372B. Homogeneous or isotropic turbulence

Symmetries and the approach to statistical equilibrium in isotropic turbulence, Phys Fluids **10**(11) 2846-2858 (Nov 1998), 4A1206
Characteristics of vortex filaments in isotropic turbulence, J Fluid Mech **373** 255-285 (Oct 1998), 5A1069
Direct numerical simulation of turbulence modulation by particles in isotropic turbulence, J Fluid Mech **375** 235-263 (Nov 1998), 5A1070
Experiments on homogeneous turbulence in an unstably stratified fluid, Phys Fluids **10**(12) 3155-3167 (Dec 1998), 5T1071
Measurement and modeling of homogeneous axisymmetric turbulence, J Fluid Mech **374** 59-90 (Nov 1998), 5A1072
Three-component vorticity measurements in a turbulent grid flow, J Fluid Mech **374** 29-57 (Nov 1998), 5A1073
Assessment of Taylor's hypothesis and local isotropy due to strain applied to a nearly homogeneous and isotropic flow, Exp Fluids **26**(1-2) 136-144 (Jan 1999), 6A1273
Stereoscopic PIV: Validation and application to an isotropic turbulent flow, Exp Fluids **26**(1-2) 107-115 (Jan 1999), 6A1274
Structure and dynamics of vorticity and rate of strain in incompressible homogeneous turbulence, J Fluid Mech **377** 65-97 (Dec 1998), 7A1088
Decay of rate of isotropic turbulence laden with microparticles, Phys Fluids **11**(3) 602-610 (Mar 1999), 8A1077
Numerical study of the modulation of isotropic turbulence by suspended particles, J Fluid Mech **379** 105-143 (Jan 1999), 8A1181
Study of the evolution and characteristics of the invariants of the velocity-gradient tensor in isotropic turbulence, J Fluid Mech **381** 141-174 (Feb 1999), 8A1182
Experimental measurements of the spatial distribution of 3D Lagrangian dispersion rates, JSME Int J Ser B **40**(4) 583-591 (Nov 1997), 8T1192
Similarity scaling of acceleration and pressure statistics in numerical simulations of isotropic turbulence, Phys Fluids **11**(5) 1208-1220 (May 1999), 9T1227
Statistical analysis of local turbulent energy fluctuations, J Fluid Mech **382** 1-26 (Mar 1999), 9A1228
Direct numerical simulation of particle-turbulence interaction, Int J Multiphase Flow **25**(2) 187-200 (Mar 1999), 9A1232
Dynamic Multilevel Methods and the Numerical Simulation of Turbulence (Cambridge UP, New York, 1999) 10R22
Effects of pressure fluctuations on turbulence growth in compressible homogeneous shear flow, Phys Fluids **11**(6) 1623-1635 (Jun 1999), 11T1243
Infrared pressure spectra in 2D and 3D isotropic incompressible turbulence, Phys Fluids **11**(6) 1535-1543 (Jun 1999), 11A1244
Lagrangian model for turbulent dispersion with turbulent-like flow structure: Comparison with direct numerical simulation for two-particle statistics, Phys Fluids **11**(6) 1572-1580 (Jun 1999), 11T1245
Lagrangian spectral relaxation model for differential diffusion in homogeneous turbulence, Phys Fluids **11**(6) 1551-1571 (Jun 1999), 11T1246
Model for the decay of rotating homogeneous turbulence, Phys Fluids **11**(6) 1544-1549 (Jun 1999), 11A1252
Transfer of energy to 2D large scales in forced, rotating 3D turbulence, Phys Fluids **11**(6) 1608-1622 (Jun 1999), 11A1253
Taylor expansions in powers of time of Lagrangian and Eulerian two-point two-time velocity correlations in turbulence, Phys Fluids **11**(8) 2154-2166 (Aug 1999), 12T1194
Passive scalar spectrum in isotropic turbulence: Prediction by the Lagrangian direct-interaction approximation, Phys Fluids **11**(7) 1936-1952 (Jul 1999), 12T1195
Random forcing of 3D homogeneous turbulence, Phys Fluids **11**(7) 1880-1889 (Jul 1999), 12A1196
Statistics and structures of pressure in isotropic turbulence, Phys Fluids **11**(8) 2235-2250 (Aug 1999), 12T1197

372E. Compressibility effects

Morkovin hypothesis and the modeling of wall-bounded compressible turbulent flows, AIAA J **36**(9) 1583-1592 (Sep 1998), 2A1152
Effects of expansion on the turbulence structure of compressible boundary layers, J Fluid Mech **367** 67-105 (Jul 1998), 2A1193
Direct numerical simulation of turbulent compression ramp flow, Theor Comput Fluid Dyn **12**(2) 109-129 (Sep 1998), 3A256
Turbulence measurements in a 3D boundary layer in supersonic flow, J Fluid Mech **372** 1-23 (Oct 1998), 4A1143
Formation of inhomogeneities in two-phase low-Mach-number compressible turbulent fluid flows, Int J Multiphase Flow **24**(7) 1163-1182 (Nov 1998), 6A1226
Experimental observations of the mixing transition in a shock-accelerated gas curtain, Phys Fluids **11**(1) 186-200 (Jan 1999), 6A1275
Evaluation of supersonic turbulent mixing using catalytic combustion of constant temperature Pt wire, JSME Int J Ser B **42**(1) 65-70 (Feb 1999), 8T1421
Method for separating shock wave motion and turbulence in LDV measurements, Exp Fluids **26**(4) 358-370 (Mar 1999), 9A280
Compressibility effects on turbulence and their numerical simulation (Chinese), J Dalian Univ Tech **39**(2) 278-284 (Mar 1999), 10A1215
Effects of pressure fluctuations on turbulence growth in compressible homogeneous shear flow, Phys Fluids **11**(6) 1623-1635 (Jun 1999), 11T1243
Asymptotic scaling of a decaying turbulent compressible vortex, Phys Fluids **11**(6) 1637-1649 (Jun 1999), 11A1247
Pseudo-sound and acoustic regimes in compressible turbulence (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 673-678 (Jul 1999), 12A1198
Report on the 6th International Workshop on the Physics of Compressible Turbulent Mixing, Shock Waves **9**(3) 215-218 (Jun 1999), 12A1199
Two-point closure for compressible turbulence (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 665-671 (Jul 1999), 12A1223

372F. Free shear layers

Transport of heavy particles in a 3D mixing layer, J Fluids Eng **120**(3) 613-620 (Sep 1998), 1A1193
Prediction and analysis of shear flow, J Hydrodyn **10**(2) 8-13 (1998), 2T1194
Turbulence reduction in the mixing layer of a plane jet using small cylinders, Exp Fluids **25**(2) 96-103 (Jul 1998), 2A1195
Identification of coherent structure in turbulent shear flow with wavelet correlation analysis, J Fluids Eng **120**(4) 778-785 (Dec 1998), 3A1163
Development of a 3D free shear layer, J Fluid Mech **369** 49-89 (Aug 1998), 3A1185
Age method for direct numerical simulation of turbulent shear flow, Int J Numer Methods Fluids **28**(7) 1013-1031 (Nov 1998), 4A1227
Statistical stady of anisotropic anomalous behavior of a cylinder wake, Exp Fluids **26**(1-2) 161-168 (Jan 1999), 6A1253
Taylor and Lagrange correlations in a turbulent free shear layer, Exp Fluids **26**(1-2) 1-6 (Jan 1999), 6A1254
Numerical investigation of the entrainment and mixing processes in neutral and stably-stratified mixing layers, Phys Fluids **11**(1) 162-185 (Jan 1999), 6A1276
Turbulent shear-layer mixing at high Reynolds numbers: Effects of inflow conditions, J Fluid Mech **376** 115-138 (Dec 1998), 6A1277
Vortex dynamics in a spatially accelerating shear layer, J Fluid Mech **376** 1-35 (Dec 1998), 6A1278
Generic centerline velocity decay curve for initially turbulent axisymmetric jets, J Fluids Eng **121**(1) 80-85 (Mar 1999), 7A1068
Instantaneous, quantitative measurements of molecular mixing in the axisymmetric jet near field, Phys Fluids **11**(2) 403-416 (Feb 1999), 7A1069
pdf description of turbulent axisymmetric free jet flow, J Fluids Eng **121**(1) 73-79 (Mar 1999), 7A1070
Calculation of stably-stratified turbulent mixing layers with the k-ε model of turbulent buoyant flow, J Hydrodyn **10**(4) 100-105 (1998), 7T1089
Numerical flow visualization of a mixing layer, J Hydrodyn **10**(4) 45-53 (1998), 7T1090
Numerical modeling of momentumless turbulent wake dynamics in a linearly stratified medium, Comput Fluids **28**(3) 281-306 (Mar 1999), 7A1091
Large-scale instability of a fine-grained turbulent jet, Eur J Mech B **18**(1) 13-34 (Jan-Feb 1999), 8A1183
Wavelet auto-correlation analysis applied to eddy structure identification of free turbulent shear flow, JSME Int J Ser B **40**(4) 567-576 (Nov 1997), 8T1184
Two-phase modeling of a fluid mixing layer, J Fluid Mech **378** 119-143 (Jan 1999), 8A1206
Large- and small-scale vortical motions in a shear layer perturbed by tabs, J Fluid Mech **382** 307-329 (Mar 1999), 9A1229
Numerical simulation of interactions between rigid rod-like polymers and coherent structures in a mixing layer, J Non-Newtonian Fluid Mech **83**(1-2) 1-18 (Jun 1999), 10A1216
Two-point description of two-fluid turbulent mixing - I: Model formulation, Int J Multiphase Flow **25**(4) 599-637 (Jun 1999), 11T1251
Scaling laws for the turbulent mixing of a passive scalar in the wake of a cylinder, Phys Fluids **11**(7) 1869-1879 (Jul 1999), 12A1162
Experimental study on the effects of air entrainment on a plane jet diffusion in a plunge pool, J Hydrodyn **11**(2) 32-37 (1999), 12T1167
Spectral nonequilibrium in a turbulent mixing layer, Phys Fluids **11**(8) 2425-2433 (Aug 1999), 12T1215

372G. Boundary layers

Development of a quasi 3D boundary layer, Appl Mech Eng **2**(3) 319-340 (1997), 1A1194
Turbulent flow past an array of bluff bodies aligned along the channel axis, J Fluids Eng **120**(3) 520-530 (Sep 1998), 1A1195
Wall-distance-free k-ε model with enhanced near-wall treatment, J Fluids Eng **120**(3) 457-462 (Sep 1998), 1A1205
Perspective: Flow at high Reynolds number and over rough surfaces - Archilles heel of CFD, J Fluids Eng **120**(3) 434-444 (Sep 1998), 1A1207
Vortex shedding from a hemisphere in a turbulent boundary layer, Theor Comput Fluid Dyn **12**(1) 1-28 (Jul 1998), 2A1151
Pulsed-wire anemometry near walls, Exp Fluids **25**(2) 151-159 (Jul 1998), 2A1164
Effects of expansion on the turbulence structure of compressible boundary layers, J Fluid Mech **367** 67-105 (Jul 1998), 2A1193
Prediction and analysis of shear flow, J Hydrodyn **10**(2) 8-13 (1998), 2T1194
Joint probability density analysis of the structure and dynamics of the vorticity field of a turbulent boundary layer, J Fluid Mech **367** 291-328 (Jul 1998), 2A1196
Model for the simulation of turbulent boundary layers in an incompressible stratified flow, J Comput Phys **144**(2) 550-602 (Aug 1998), 2A1197
Spatial structure of negative \partiau/∂y in a low R_θ turbulent boundary layer, J Fluids Eng **120**(4) 772-777 (Dec 1998), 3A1113
Turbulence measurements of a longitudinal vortex generated by an inclined jet in a turbulent boundary layer, J Fluids Eng **120**(4) 765-771 (Dec 1998), 3A1114
Turbulence measurements in a 3D boundary layer in supersonic flow, J Fluid Mech **372** 1-23 (Oct 1998), 4A1143
Direct numerical simulation of a separated turbulent boundary layer, J Fluid Mech **370** 175-201 (Sep 1998), 4A1207
Simple experimental equation for the bursting cycle, Phys Fluids **10**(11) 3023-3026 (Nov 1998), 4T1208
Direct numerical simulation of a separated turbulent boundary layer, J Fluid Mech **374** 379-405 (Nov 1998), 5A1042
Boundary layer development after a separated region, J Fluid Mech **374** 91-116 (Nov 1998), 5A1074
Spanwise structure of wall pressure on a cylinder in axial flow, Phys Fluids **11**(1) 151-161 (Jan 1999), 6T1191
Small scale intermittency in a rough wall turbulent boundary layer, Exp Fluids **26**(1-2) 145-152 (Jan 1999), 6A1279
Modeling turbulent wall flows subjected to strong pressure variations, J Fluids Eng **121**(1) 57-64 (Mar 1999), 7A1044
Drag reduction in the turbulent pipe flow of polymers, J Non-Newtonian Fluid Mech **81**(3) 197-213 (Mar 1999), 7A1051
Direct numerical simulation of self-similar turbulent boundary layers in adverse pressure gradients, Flow Turbulence Combust **60**(1) 47-85 (1998), 7A1092
Relation between fronts and high-shear layers in wall turbulence, Flow Turbulence Combust **60**(1) 87-103 (1998), 7A1093
Effect of Reynolds number on boundary layer turbulence, Exp Thermal Fluid Sci **18**(4) 341-346 (Dec 1998), 8T1100
Drag characteristics of a turbulent boundary layer over a flat plate with transverse square grooves, Exp Fluids **26**(3) 273-275 (Feb 1999), 8A1116
Probability density function in the log-law region of low Reynolds number turbulent boundary layer, Phys Fluids **11**(3) 647-658 (Mar 1999), 8A1185
RNG modeling of turbulent heat flux and its application to wall shear flows, JSME Int J Ser B **41**(3) 657-665 (Aug 1998), 8T1186
Mach- and Reynolds-number dependence of the flat-plate turbulent boundary layer wall-pressure spectrum, Theor Comput Fluid Dyn **13**(1) 33-56 (Apr 1999), 10A1179
Absolute instability in the compressible flow around a rotating cone, J Theor Appl Mech **37**(1) 29-46 (1999), 10A1217
Correction of hot-wire measurements in the near-wall region, Exp Fluids **26**(5) 475-477 (Apr 1999), 10A1232
Analytical near wall solution of the k-ε model for transpired boundary layer flows, Int J Heat Mass Transfer **42**(16) 3085-3096 (Aug 1999), 11A1195
Image processing and velocity measurements in the turbulent boundary layer of a laboratory shallow channel, J Hydrology and Hydromech **47**(2) 81-92 (1999), 11T1196
Theory for predicting the turbulent-spot production rate, J Turbomachinery **121**(3) 588-593 (Jul 1999), 11A1198
Conditional correlation between a passive scalar and its dissipation in a turbulent boundary layer, Exp Fluids **26**(6) 488-496 (May 1999), 11A1248
Laminar flow due to a rotating frustum of a cone, Appl Mech Eng **4**(1) 113-120 (1999), 11A1249
Transitional intermittency detection by neural network, Exp Fluids **26**(6) 549-552 (May 1999), 11A1265
PDF model for dispersed particles with inelastic particle-wall collisions, Phys Fluids **11**(7) 1858-1868 (Jul 1999), 12T1200
Parameter effects on detection of coherent structures in turbulent boundary layers using conditional sampling methods, Fluid Dyn Res **25**(2) 87-112 (Aug 1999), 12A1217

372H. Pipe and channel flow

Methods to set up and investigate low Reynolds number, fully developed turbulent plane channel flows, J Fluids Eng **120**(3) 496-503 (Sep 1998), 1A1196
Investigation of entry region turbulent flows of nongray gases, Appl Sci Res **59**(1) 43-60 (1997), 3A1122
Turbulent flow through spacer grids in rod bundles, J Fluids Eng **120**(4) 786-791 (Dec 1998), 3A1136
Truncation error analysis of the rotational form for the convective terms in the Navier-Stokes equation, J Comput Phys **145**(2) 671-692 (Sep 1998), 3A1167
Mean-flow scaling of turbulent pipe flow, J Fluid Mech **373** 33-79 (Oct 1998), 5A1045
Turbulent combined oscillatory flow and current in a pipe, J Fluid Mech **373** 313-348 (Oct 1998), 5A1048
Force balance in a turbulent particulate channel flow, Int J Multiphase Flow **24**(6) 867-887 (Sep 1998), 5A1075
Scaling of longitudinal velocity increments in a fully developed turbulent channel flow, Phys Fluids **10**(12) 3239-3241 (Dec 1998), 5T1076
Compact finite difference schemes on non-uniform meshes: Application to direct numerical simulations of compressible flows, Int J Numer Methods Fluids **29**(2) 159-191 (Jan 1999), 7A1005
Entrainment and mixing studies for a variable density confined jet, Numer Heat Transfer A **35**(2) 205-223 (Feb 1999), 7A1053
Numerical study of Bingham turbulent flow in sudden-expansion straight circular pipe, Appl Math Mech **19**(11) 1095-1101 (Nov 1998), 7A1094
Very large-scale motion in the outer layer, Phys Fluids **11**(2) 417-422 (Feb 1999), 7A1095
Vorticity flux control for a turbulent channel flow, Phys Fluids **11**(2) 248-250 (Feb 1999), 7T1096
Direct numerical simulation of turbulent channel flow up to Re$_\tau$ = 590, Phys Fluids **11**(4) 943-945 (Apr 1999), 8T1187
Preliminary analysis of the scaling exponents in channel flow turbulence, Fluid Dyn Res **24**(4) 201-209 (Apr 1999), 8T1188
Isotropic prestress theory for fully developed channel flows, Phys Fluids **11**(5) 1262-1271 (May 1999), 9T1230
Dynamic Multilevel Methods and the Numerical Simulation of Turbulence (Cambridge UP, New York, 1999) 10R22
Effect of spanwise-varying local forcing on turbulent separated flow over a backward-facing step, Exp Fluids **26**(5) 437-440 (Apr 1999), 10A1185
Near wall structure in vertical air-water annular flows, Int J Multiphase Flow **25**(3) 459-476 (Apr 1999), 10T1218
Geometrical method for computing the distribution of boundary shear stress across irregular straight open channels, J Hydraul Res **37**(3) 381-388 (1999), 12A1051
Large flow structures in a turbulent open channel flow, J Hydraul Res **37**(3) 363-380 (1999), 12A1052
Large-eddy simulation of flow in a rectangular open channel, J Hydraul Res **37**(3) 345-361 (1999), 12T1053
Low-dimensional modeling of channel turbulence, Theor Comput Fluid Dyn **13**(2) 115-127 (Jun 1999), 12A1201

372I. Stratified flows

Aspects of the decay of convective turbulence, Fluid Dyn Res **23**(3) 161-176 (Sep 1998), 1A1197
Model for the simulation of turbulent boundary layers in an incompressible stratified flow, J Comput Phys **144**(2) 550-602 (Aug 1998), 2A1197
Direct numerical simulation of turbulence in a stably stratified fluid and wave-shear interaction, Appl Sci Res **59**(2-3) 111-125 (1997), 4A1209
Report on turbulence and mixing in geophysical flows II, Appl Sci Res **59**(2-3) 89-110 (1997), 4A1221
Excitation and breaking of internal gravity waves by parametric instability, J Fluid Mech **374** 117-144 (Nov 1998), 5A233
Experiments on homogeneous turbulence in an unstably stratified fluid, Phys Fluids **10**(12) 3155-3167 (Dec 1998), 5T1071
Model for near-wall dynamics in turbulent Rayleigh-Benard convection, J Fluid Mech **373** 221-254 (Oct 1998), 5A1077
Numerical investigation of the entrainment and mixing processes in neutral and stably-stratified mixing layers, Phys Fluids **11**(1) 162-185 (Jan 1999), 6A1276
Vortex dynamics in a spatially accelerating shear layer, J Fluid Mech **376** 1-35 (Dec 1998), 6A1278
Calculation of stably-stratified turbulent mixing layers with the k-ε model of turbulent buoyant flow, J Hydrodyn **10**(4) 100-105 (1998), 7T1089
Numerical flow visualization of a mixing layer, J Hydrodyn **10**(4) 45-53 (1998), 7T1090
Fully coupled Navier-Stokes solver for calculation of turbulent incompressible free surface flow past a ship hull, Int J Numer Methods Fluids **29**(2) 125-142 (Jan 1999), 7A1106
Coherent structure and heat transfer in geostrophic flow under density stratification, Phys Fluids **11**(2) 368-377 (Feb 1999), 7A1578
Internal waves and rectification in a linearly stratified fluid, Dyn Atmos Oceans **29**(1) 65-84 (Mar 1999), 9A269
Case study of 2D stratified turbulence, J Atmos Sci **56**(7) 959-976 (Apr 1999), 9T1235
Including radiative effects in an entrainment rate formula for buoyancy-driven PBLs, J Atmos Sci **56**(8) 1031-1049 (Apr 1999), 10A1219
Surface layer for free-surface turbulent flows, J Fluid Mech **386** 167-212 (May 1999), 11A1250
Two-point description of two-fluid turbulent mixing - I: Model formulation, Int J Multiphase Flow **25**(4) 599-637 (Jun 1999), 11T1251
Analysis of turbulent motions in and around a differentially forced density interface, Theor Comput Fluid Dyn **13**(2) 129-141 (Jun 1999), 12A1202
k-ε model of turbulent buoyant stratified two-phase flow (Chinese), J Dalian Univ Tech **39**(3) 455-459 (May 1999), 12A1220

372J. Rotating flows or surfaces

Design sensitivity and FE analysis of free surface flows with application to optimal design of casting rigging systems, Int J Numer Methods Fluids **28**(3) 419-442 (Sep 1998), 2A41
Accounting for effects of a system rotation on the pressure-strain correlation, AIAA J **36**(9) 1746-1748 (Sep 1998), 2T1198
Experimental study of drag reduction due to an added disk (Chinese), J Xi'an Jiaotong Univ **32**(9) 41-45 (1998), 3A1159
Velocity and passive scalar scaling laws in a turbulent swirling flow, Physica D **122**(1-4) 187-201 (Nov 1998), 3A1160
Influence of rotation on shelf convection, J Fluid Mech **369** 23-48 (Aug 1998), 3A1161
Truncation error analysis of the rotational form for the convective terms in the Navier-Stokes equation, J Comput Phys **145**(2) 671-692 (Sep 1998), 3A1167
Experimental and numerical study of flat momentumless wake, Int J Heat Fluid Flow **19**(6) 608-622 (Dec 1998), 4A1210
Numerical study of rotating turbulence with external forcing, Phys Fluids **10**(11) 2895-2909 (Nov 1998), 4A1211
Accuracy of large eddy simulation for turbulent flow by the FEM, Proc Inst Mech Eng C **212**(C7) 643-650 (1998), 5A1078
Mechanisms of turbulence transport in a turbine blade coolant passage with a rib turbulator, J Turbomachinery **121**(1) 152-159 (Jan 1999), 5A1079
Remarks concerning recent work on rotating turbulence, Phys Fluids **10**(12) 3242-3244 (Dec 1998), 5A1080
Spectral-dynamic model for large-eddy simulations of turbulent rotating channel flow, Theor Comput Fluid Dyn **12**(3) 149-177 (Nov 1998), 5A1081
Heat transport in rotating convection, Physica D **125**(3-4) 275-284 (Jan 1999), 7A1261
Spontaneous formation of equatorial jets in freely decaying shallow water turbulence, Phys Fluids **11**(5) 1272-1274 (May 1999), 9A1231

Computation of plane turbulent flow using probability density function method, J Theor Appl Mech **37**(1) 3-11 (1999), 10A1220
Computational study of the wake control problem, J Theor Appl Mech **37**(1) 13-27 (1999), 10A1221
Model for the decay of rotating homogeneous turbulence, Phys Fluids **11**(6) 1544-1549 (Jun 1999), 11A1252
Transfer of energy to 2D large scales in forced, rotating 3D turbulence, Phys Fluids **11**(6) 1608-1622 (Jun 1999), 11A1253
Two-point description of two-fluid turbulent mixing - II: Numerical solutions and comparisons with experiments, Int J Multiphase Flow **25**(4) 639-682 (Jun 1999), 11T1254
Vortical structures in rotating uniformly sheared turbulence, Flow Turbulence Combust **60**(3) 301-332 (1998), 11A1255
Direct numerical simulation of vortex structures and turbulent scalar transfer across a free surfacer in a fully developed turbulence, Phys Fluids **11**(6) 1581-1595 (Jun 1999), 11T1271
Blade Row Interference Effects in Axial Turbomachinery Stages (von Karman Inst, Rhode-St-Genese, Belgium, 1998) 12N26
Development of a turbulence model based on the energy spectrum for flows involving rotation, Phys Fluids **11**(8) 2225-2234 (Aug 1999), 12A1203
Numerical simulation of the turbulent flow in rotating duct, J Hydrodyn **11**(2) 118-124 (1999), 12A1204

372K. Non-Newtonian flow

Transitions to complex flows in the Ekman-Couette layer, J Fluid Mech **366** 311-331 (Jul 1998), 1A1198
Direct numerical simulation of viscoelastic turbulent channel flow exhibiting drag reduction: Effect of the variation of rheological parameters, J Non-Newtonian Fluid Mech **79**(2-3) 433-468 (Nov 1998), 4A1212
Pressure spectra in homogeneous low Reynolds number turbulent shear flow subjected to weak rotation, Fluid Dyn Res **23**(6) 343-348 (Dec 1998), 4A1213
Motion of fibers in turbulent flow, J Fluid Mech **377** 47-64 (Dec 1998), 7A1097
Coherent structure and heat transfer in geostrophic flow under density stratification, Phys Fluids **11**(2) 368-377 (Feb 1999), 7A1578
Numerical simulation of interactions between rigid rod-like polymers and coherent structures in a mixing layer, J Non-Newtonian Fluid Mech **83**(1-2) 1-18 (Jun 1999), 10A1216
Decay of grid turbulence in polymer and surfactant solutions, Phys Fluids **11**(8) 2387-2393 (Aug 1999), 12T1205
Passive advection in nonlinear medium, Phys Fluids **11**(8) 2257-2262 (Aug 1999), 12T1206

372L. Heat and mass transfer (diffusion, dispersion, etc)

Transport of heavy particles in a 3D mixing layer, J Fluids Eng **120**(3) 613-620 (Sep 1998), 1A1193
Probability density function propagation model for turbulent particle dispersion, Int J Multiphase Flow **24**(4) 663-678 (Jun 1998), 1A1199
Heat transfer in turbulent flow past a surface-mounted 2D rib, J Heat Transfer **120**(3) 724-734 (Aug 1998), 1A1286
Effect of turbulence on the heat transfer in closed gas-filled rotating annuli, J Turbomachinery **120**(4) 824-830 (Oct 1998), 2A1199
Effects of very high freestream turbulence on the jet-mainstream interaction in a film cooling flow, J Turbomachinery **120**(4) 785-790 (Oct 1998), 2A1200
Selected papers from the 11th Symposium on Turbulent Shear Flows, Grenoble, France, September 8-10, 1997, Int J Heat Fluid Flow **19**(5) 393-581 (Oct 1998), 2T1201
Direct numerical simulation of a turbulent channel flow with a linear spanwise mean temperature gradient, Int J Heat Mass Transfer **41**(22) 3627-3634 (Nov 1998), 3A1227
Numerical and experimental study of transient turbulent natural convection in a horizontal cylindrical container, Int J Heat Mass Transfer **41**(22) 3635-3645 (Nov 1998), 3A1239
Trajectory curvature as a selection criterion for valid Lagrangian stochastic dispersion models, Boundary-Layer Meteorol **88**(1) 77-86 (Jul 1998), 3T1506
Role of the turbulent scales in the settling velocity of heavy particles in homogeneous isotropic turbulence, J Fluid Mech **371** 179-205 (Sep 1998), 4A1117
Analytical skin friction and heat transfer model for compressible, turbulent, internal flows, Int J Heat Fluid Flow **19**(6) 623-628 (Dec 1998), 4A1157
Correlations and conditional statistics in differential diffusion: Scalars with uniform mean gradients, Phys Fluids **10**(10) 2621-2635 (Oct 1998), 4T1214
Effects of heat of reaction on homogeneous compressible turbulence, J Sci Comput **13**(2) 201-228 (Jun 1998), 4A1215
How a joint interaction of two innocent partners (smooth advection and linear damping) produces a strong intermittency, Phys Fluids **10**(11) 3017-3019 (Nov 1998), 4T1216
Numerical experiments in scalar diffusion under stochastic convection, Appl Sci Res **59**(2-3) 127-139 (1997), 4A1217
Theoretical study of the turbulent diffusion in incompressible shear flows and in passive scalars, Phys Fluids **10**(10) 2636-2646 (Oct 1998), 4T1218
Thermal transport in turbulent Couette flows in concentric annuli for various Prandtl numbers, Numer Heat Transfer A **34**(5) 537-552 (Oct 1998), 4A1219
Three-point statistics and the anisotropy of a turbulent passive scalar, Phys Fluids **10**(11) 2885-2894 (Nov 1998), 4A1220
Transition from turbulent natural to turbulent forced convection, J Heat Transfer **120**(4) 1086-1089 (Nov 1998), 4T1322
Direct numerical simulation of turbulence modulation by particles in isotropic turbulence, J Fluid Mech **375** 235-263 (Nov 1998), 5A1070
Force balance in a turbulent particulate channel flow, Int J Multiphase Flow **24**(6) 867-887 (Sep 1998), 5A1075
Lagrangian turbulent dispersion models based on the Langevin equation, Int J Multiphase Flow **24**(6) 913-945 (Sep 1998), 5A1082
Large-eddy simulation of turbulent flow over a 2D cavity with temperature fluctuations, Int J Heat Mass Transfer **42**(1) 49-59 (Jan 1999), 5A1083
Heat transfer in a wall jet at high turbulence of cocurrent stream, Int J Heat Mass Transfer **42**(4) 599-612 (Feb 1999), 5A1169
Comparison of low Reynolds number k ε models in simulation of momentum and heat transport under high free stream turbulence, Int J Heat Mass Transfer **42**(4) 723-737 (Feb 1999), 5A1172
Convective Heat and Mass Transfer in an Insulated Trailing Swirl: Theory and Design of Vortex Equipment (Begell House, New York, 1998) 6R34
Mechanism of turbulent coherent structure - II: A statistical and dynamical model of coherent structure and its heat transfer mechanism, Appl Math Mech **19**(8) 705-711 (Aug 1998), 6A1280
Adaptive computations of turbulent forced convection, Numer Heat Transfer A **34**(8) 847-871 (Dec 1998), 6A1362
Particle Lagrangian tracking with hydrodynamic interactions and collisions, Flow Turbulence Combust **60**(1) 1-18 (1998), 7T1017
Computational simulation of turbulent mixing with mass transfer, Comput Struct **70**(4) 447-465 (Feb 1999), 7A1098
Heat transfer in a 3D turbulent boundary layer with longitudinal vortices, Int J Heat Mass Transfer **42**(8) 1521-1534 (Apr 1999), 7A1210
Numerical study of turbulent heat transfer in confined and unconfined impinging jets, Int J Heat Fluid Flow **20**(1) 1-9 (Feb 1999), 7A1211
Experimental investigation of turbulent heat transfer and fluid flow in internally finned tubes, Int J Heat Mass Transfer **42**(7) 1343-1351 (Apr 1999), 7T1217
Heat transfer characteristics of pulsated turbulent pipe flow, Heat and Mass Transfer Warme **34**(5) 413-421 (Feb 1999), 7A1221
Heat transfer in turbulent pipe flow revisited: Similarity law for heat and momentum transport in low-Prandtl-number fluids, Int J Heat Mass Transfer **42**(8) 1535-1540 (Apr 1999), 7T1224
Turbulence phenomena in the radio frequency induction plasma torch, Int J Heat Mass Transfer **42**(9) 1585-1595 (May 1999), 7A1229
Application of a second-moment closure model to simulate the turbulent dispersion from an elevated line source, Heat and Mass Transfer Warme **34**(5) 429-436 (Feb 1999), 7A1230
Heat transport in rotating convection, Physica D **125**(3-4) 275-284 (Jan 1999), 7A1261
Probability density function approach to modeling turbulence-radiation interactions in nonluminous flames, Int J Heat Mass Transfer **42**(6) 971-991 (Mar 1999), 7A1344
Two-equation turbulence model and its application to a buoyant diffusion flame, Int J Heat Mass Transfer **42**(7) 1305-1315 (Apr 1999), 7A1493
Numerical study of the modulation of isotropic turbulence by suspended particles, J Fluid Mech **379** 105-143 (Jan 1999), 8A1181
Computation of flame base height of a turbulent diffusion flame resulting from a methane jet, JSME Int J Ser B **42**(1) 78-90 (Feb 1999), 8T1189
Density correction for Lagrangian particle dispersion models, Boundary-Layer Meteorol **90**(1) 155-167 (Jan 1999), 8A1190
Detachment of rough particles with electrostatic attraction from surfaces in turbulent flows, J Adhesion Sci Tech **13**(3) 325-355 (1999), 8A1191
Experimental measurements of the spatial distribution of 3D Lagrangian dispersion rates, JSME Int J Ser B **40**(4) 583-591 (Nov 1997), 8T1192
Measurement of turbulent flow fields in a stirred vessel with four baffles by laser-doppler velocimetry: Analysis with periodic averaged velocity profiles, JSME Int J Ser B **41**(4) 806-813 (Nov 1998), 8T1193
New features of the passive scaler mixing in a turbulent flow, Phys Fluids **11**(3) 636-646 (Mar 1999), 8A1194
Numerical simulation of effect of surface diffusion on hydrogen-oxygen reaction over platinum catalytic surface, JSME Int J Ser B **42**(1) 71-77 (Feb 1999), 8T1197
Numerical prediction of heat and momentum transfer over micro-grooved surface with a nonlinear k-ε model, Int J Heat Mass Transfer **42**(14) 2525-2541 (Jul 1999), 8A1290
Computation of turbulent buoyant flows in enclosures with low-Reynolds-number k-ω models, Int J Heat Fluid Flow **20**(2) 172-184 (Apr 1999), 8A1305
Developing turbulent heat transfer in a 360° bend of square cross section, Heat Transfer Asian Res **28**(2) 77-88 (1999), 8A1314
Effect of high free-stream turbulence with large length scale on blade heat-mass transfer, J Turbomachinery **121**(2) 217-224 (Apr 1999), 8A1315
Heat transfer in a pipe under conditions of transient turbulent flow, Int J Heat Fluid Flow **20**(2) 115-127 (Apr 1999), 8A1320
Evaluation of supersonic turbulent mixing using catalytic combustion of constant temperature Pt wire, JSME Int J Ser B **42**(1) 65-70 (Feb 1999), 8T1421
Direct numerical simulation of particle-turbulence interaction, Int J Multiphase Flow **25**(2) 187-200 (Mar 1999), 9A1232
Field Monte Carlo formulation for calculating the probability density function of a single scalar in a turbulent flow, Flow Turbulence Combust **60**(2) 157-172 (1998), 9T1233
Lower bounds on scalar dissipation in bounded rectilinear flows, Flow Turbulence Combust **60**(2) 125-156 (1998), 9T1234
Comparative analysis of different models for the turbulent Prandtl number, J Heat Transfer **121**(2) 473-477 (May 1999), 9T1320
Swirling effects on laminarization of gas flow in a strongly heated tube, J Heat Transfer **121**(2) 307-313 (May 1999), 9A1326
Turbulent heat transport in a perturbed channel flow, J Heat Transfer **121**(2) 322-325 (May 1999), 9A1327
Macroscopic turbulence model for flow in a porous medium, J Fluids Eng **121**(2) 427-433 (Jun 1999), 9A1480
Effect of anisotropy on the turbulent dispersion and deposition of small particles, Int J Multiphase Flow **25**(3) 551-558 (Apr 1999), 10T1222
Experimental investigation of the Reynolds criterion for transition between the transition zone to complete turbulence in 3D internally finned tubes, Heat Transfer Asian Res **28**(3) 183-188 (1999), 10A1301
Heat transfer enhancement of turbulent duct flow by vortex generators attached to a large eddy break-up manipulator, Heat Transfer Asian Res **28**(3) 189-200 (1999), 10A1303
Numerical simulation of nonpenetrative turbulent thermal convection, Numer Heat Transfer A **35**(5) 451-466 (Apr 1999), 10A1309
Unsteady heat transfer in stator-rotor interaction by two-equation turbulence model, J Turbomachinery **121**(3) 436-447 (Jul 1999), 11A1159
Lagrangian model for turbulent dispersion with turbulent-like flow structure: Comparison with direct numerical simulation for two-particle statistics, Phys Fluids **11**(6) 1572-1580 (Jun 1999), 11T1245
Lagrangian spectral relaxation model for differential diffusion in homogeneous turbulence, Phys Fluids **11**(6) 1551-1571 (Jun 1999), 11T1246
Conditional correlation between a passive scalar and its dissipation in a turbulent boundary layer, Exp Fluids **26**(6) 488-496 (May 1999), 11A1248
Dispersion experiments of a tracer in a laboratory (Spanish), Ingenieria Hidraul Mex **14**(2) 65-74 (May-Aug 1999), 11A1256
Statistical model of particle transport and heat transfer in turbulent shear flows, Phys Fluids **11**(6) 1521-1534 (Jun 1999), 11A1257
Application of the k-ε model with variable Prandtl number to heat transfer computations in air flows, Heat and Mass Transfer Warme **34**(6) 503-508 (Apr 1999), 11A1349
Turbulence modeling experience in ducts with forced convection flow, Numer Heat Transfer A **35**(6) 629-654 (May 1999), 11A1354
Influence of a drag-reducing surfactant on a turbulent velocity field, J Fluid Mech **388** 1-20 (Jun 1999), 12A1146
Lagrangian method for multiple correlations in passive scalar advection, Phys Fluids **11**(8) 2178-2186 (Aug 1999), 12T1188
Report on the 6th International Workshop on the Physics of Compressible Turbulent Mixing, Shock Waves **9**(3) 215-218 (Jun 1999), 12A1199
PDF model for dispersed particles with inelastic particle-wall collisions, Phys Fluids **11**(7) 1858-1868 (Jul 1999), 12T1200
Passive advection in nonlinear medium, Phys Fluids **11**(8) 2257-2262 (Aug 1999), 12T1206
Lagrangian tetrad dynamics and the phenomenology of turbulence, Phys Fluids **11**(8) 2394-2410 (Aug 1999), 12T1207
Large-scale properties of passive scalar advection, Phys Fluids **11**(8) 2269-2279 (Aug 1999), 12T1208
Low Reynolds number two-equation k_θ-ϵ_θ model to predict thermal fields, Int J Heat Mass Transfer **42**(17) 3217-3230 (Sep 1999), 12A1209
Selected papers from the Engineering Foundation Turbulent Heat Transfer 2 Conference, Manchester, June 1-4 1998, Int J Heat Fluid Flow **20**(3) 187-354 (Jun 1999), 12T1286
Thermal patterns on the smooth and rough walls in turbulent flows, Int J Heat Mass Transfer **42**(20) 3815-3829 (Oct 1999), 12A1288
Experimental study on the local convection heat transfer from a wall-mounted cube in turbulent channel flow, J Heat Transfer **121**(3) 564-573 (Aug 1999), 12A1292
Improved modeling of turbulent forced convective heat transfer in straight ducts, J Heat Transfer **121**(3) 712-719 (Aug 1999), 12A1295
Numerical prediction of transitional features of turbulent forced gas flows in circular tubes with strong heating, J Heat Transfer **121**(3) 546-555 (Aug 1999), 12A1297
Conditional analysis of turbulent heat transport in a quasi 2D wake interacting with a boundary layer, Int J Heat Mass Transfer **42**(18) 3481-3494 (Sep 1999), 12A1315
Effect of cross-sectional aspect ratio on turbulent heat transfer in an orthogonally rotating rectangular smooth duct, Int J Heat Mass Transfer **42**(20) 3803-3814 (Oct 1999), 12A1317

372N. Geophysical turbulence

Lagrangian accelerations in geostrophic turbulence, J Fluid Mech **366** 87-108 (Jul 1998), 1A1200
One-point probability density function for the wind velocity in the neutral atmospheric surface layer, J Fluid Mech **366** 351-365 (Jul 1998), 1A1201
Simulation of free surface recirculating flows in semi-enclosed water bodies by a k-ω model, Appl Math Model **22**(3) 153-164 (Mar 1998), 1A1202
Wind field simulation, Probab Eng Mech **13**(4) 269-282 (Oct 1998), 1A1203
Generalized equivalent spectrum technique, Wind Struct **1**(2) 161-174 (Jun 1998), 1A1457
Shallow-water flow solver with non-hydrostatic pressure: 2D vertical plane problems, Int J Numer Methods Fluids **28**(3) 541-563 (Sep 1998), 2A1202
Horizontal, two point coherence for separations greater than the measurement height, Boundary-Layer Meteorol **87**(3) 459-480 (Jun 1998), 2T1486
Influence of rotation on shelf convection, J Fluid Mech **369** 23-48 (Aug 1998), 3A1161
Report on turbulence and mixing in geophysical flows II, Appl Sci Res **59**(2-3) 89-110 (1997), 4A1221
Intermittency in the 2D inverse cascade of energy: Experimental observations, Phys Fluids **10**(12) 3126-3136 (Dec 1998), 5A1084
Decaying 2D turbulence in square containers with no-slip or stress-free boundaries, Phys Fluids **11**(3) 611-626 (Mar 1999), 8A1195
Vortex crystals from 2D Euler flow: Experiment and simulation, Phys Fluids **11**(4) 905-914 (Apr 1999), 8T1196
Case study of 2D stratified turbulence, J Atmos Sci **56**(7) 959-976 (Apr 1999), 9T1235
Velocity fluctuations in a turbulent soap film: The third moment in 2D, Phys Fluids **11**(5) 1196-1200 (May 1999), 9A1236
Non-Gaussianity and coherent vortex simulation for 2D turbulence using an adaptive orthogonal wavelet basis, Phys Fluids **11**(8) 2187-2201 (Aug 1999), 12A1210
Particle aggregation in a turbulent Keplerian flow, Phys Fluids **11**(8) 2280-2287 (Aug 1999), 12A1211
Soap film flows: Statistics of 2D turbulence, Phys Fluids **11**(8) 2167-2177 (Aug 1999), 12A1212
Validity of a nonlocal approach for MHD turbulence, Phys Fluids **11**(8) 2298-2306 (Aug 1999), 12A1213
Can the atmospheric kinetic energy spectrum be explained by 2D turbulence, J Fluid Mech **388** 259-288 (Jun 1999), 12A1551

372O. Nonequilibrium and chemical effects

Turbulent shear-layer mixing at high Reynolds numbers: Effects of inflow conditions, J Fluid Mech **376** 115-138 (Dec 1998), 6A1277
RNG modeling of turbulent heat flux and its application to wall shear flows, JSME Int J Ser B **41**(3) 657-665 (Aug 1998), 8T1186
Numerical simulation of effect of surface diffusion on hydrogen-oxygen reaction over platinum catalytic

surface, JSME Int J Ser B **42**(1) 71-77 (Feb 1999), 8T1197
Subgrid-scale model for the scalar dissipation rate in nonpremixed combustion, Phys Fluids **11**(3) 746-748 (Mar 1999), 8T1198
Evaluation of premixed combustion around a bluff body using a combustion model, JSME Int J Ser B **41**(3) 650656 (Aug 1998), 8A1437
Assessment of numerical accuracy of PDF-Monte Carlo methods for turbulent reacting flows, J Comput Phys **152**(1) 192-230 (Jun 1999), 11A1258
Turbulent burning velocity for large-scale and small-scale turbulence, J Fluid Mech **384** 107-132 (Apr 1999), 11A1259
Conditional moment closure for large eddy simulation of nonpremixed turbulent reacting flows, Phys Fluids **11**(7) 1896-1906 (Jul 1999), 12A1214
Spectral nonequilibrium in a turbulent mixing layer, Phys Fluids **11**(8) 2425-2433 (Aug 1999), 12T1215
Turbulence averaging within spark ignition engines, Exp Fluids **27**(1) 92-101 (Jun 1999), 12A1486

372P. Intermittency and other flow structure

Dynamics of interaction modes in excited annular jets, Exp Thermal Fluid Sci **17**(4) 319-338 (Aug 1998), 1T1183
Effects of expansion on the turbulence structure of compressible boundary layers, J Fluid Mech **367** 67-105 (Jul 1998), 2A1193
Dynamics and statistics of concentrated vortices in turbulent flow, Eur J Mech B **17**(4) 405-675 (Jul-Aug 1998), 3A1162
Identification of coherent structure in turbulent shear flow with wavelet correlation analysis, J Fluids Eng **120**(4) 778-785 (Dec 1998), 3A1163
Structure functions in complex flows, Appl Sci Res **59**(2-3) 299-313 (1997), 4A1222
Study of correlation coefficients of fluctuating turbulent velocities under drag-reducing conditions (Chinese), J Dalian Univ Tech **38**(5) 525-528 (Sep 1998), 4A1223
Probability density functions of free-surface velocities and velocity gradients, Mech Res Commun **25**(6) 605-612 (Nov-Dec 1998), 5T1085
Small scale intermittency in a rough wall turbulent boundary layer, Exp Fluids **26**(1-2) 145-152 (Jan 1999), 6A1279
Experimental assessment of fractal scale similarity in turbulent flows - Part IV: Effects of Reynolds and Schmidt numbers, J Fluid Mech **377** 169-187 (Dec 1998), 7A1099
Management of a stronger wall jet by an embedded streamwise vortex: Reynolds stresses distributions and evaluation of the vorticity transport equation, JSME Int J Ser B **42**(1) 1-8 (Feb 1999), 8T1148
Wavelet auto-correlation analysis applied to eddy structure identification of free turbulent shear flow, JSME Int J Ser B **40**(4) 567-576 (Nov 1997), 8T1184
Objective method for determining principal time scales of coherent eddy structures using orthonormal wavelets, Adv Water Resources **22**(6) 561-566 (Feb 1999), 8A1199
Physically-based turbulent velocity time series decomposition, Boundary-Layer Meteorol **90**(2) 241-295 (Feb 1999), 8T1200
Two-layer approach combining Reynolds stress and low-Reynolds-number k-ε model, AIAA J **37**(2) 283-287 (Feb 1999), 8T1201
Velocity fluctuations in a turbulent soap film: The third moment in 2D, Phys Fluids **11**(5) 1196-1200 (May 1999), 9A1236
Detection of coherent vorticity structures using time-scale resolved acoustic spectroscopy, Physica D **128**(1) 1-17 (Apr 1999), 9A1237
Double spatial correlations: A new experimental insight into wall turbulence, Comptes Rendus L'Acad Sci Serie II **327**(1) 55-61 (Jan 1999), 9A1238
Intermittency and eddy viscosities in dynamical models of turbulence, Phys Fluids **11**(5) 1221-1228 (May 1999), 9A1240
Deterministic numerical simulation of turbulence (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 333-341 (Apr 1999), 10A1230
Turbulent transport in the core of a trailing half-delta-wing vortex, J Fluid Mech **387** 151-175 (May 1999), 11A1101
Asymptotic scaling of a decaying turbulent compressible vortex, Phys Fluids **11**(6) 1637-1649 (Jun 1999), 11A1247
Vortical structures in rotating uniformly sheared turbulence, Flow Turbulence Combust **60**(3) 301-332 (1998), 11A1255
Intermittency and scaling laws for wall bounded turbulence, Phys Fluids **11**(6) 1284-1286 (Jun 1999), 11A1260
Mechanisms for generating coherent packets of hairpin vortices in channel flow, J Fluid Mech **387** 353-396 (May 1999), 11A1261
Multifractal asymptotic modeling of the probability density function of velocity increments in turbulence, Physica D **129**(1-2) 93-114 (May 1999), 11A1262
Quadratic Markov modeling for intermittent turbulence, Phys Fluids **11**(6) 1694-1696 (Jun 1999), 11T1263
Statistical equilibrium measures and coherent states in 2D turbulence, Commun Pure Appl Math **52**(7) 781-809 (Jul 1999), 11A1264
Transitional intermittency detection by neural network, Exp Fluids **26**(6) 549-552 (May 1999), 11A1265
Direct numerical simulation of vortex structures and turbulent scalar transfer across a free surfacer in a fully developed turbulence, Phys Fluids **11**(6) 1581-1595 (Jun 1999), 11T1271
Non-Gaussianity and coherent vortex simulation for 2D turbulence using an adaptive orthogonal wavelet basis, Phys Fluids **11**(8) 2187-2201 (Aug 1999), 12A1210
Multiscale velocity correlation in turbulence: Experiments, numerical simulations, synthetic signals, Phys Fluids **11**(8) 2215-2224 (Aug 1999), 12A1216
Parameter effects on detection of coherent structures in turbulent boundary layers using conditional sampling methods, Fluid Dyn Res **25**(2) 87-112 (Aug 1999), 12A1217
Conditional subgrid force and dissipation in locally isotropic and rapidly strained turbulence, Phys Fluids **11**(8) 2317-2329 (Aug 1999), 12A1219

372Q. Modeling of turbulence

Turbulence Modeling for CFD, Second Edition (DCW Indust, La Canada CA, 1998) 1N27
Local energy flux and subgrid-scale statistics in 3D turbulence, J Fluid Mech **366** 1-31 (Jul 1998), 1A1204
Wall-distance-free k-ε model with enhanced near-wall treatment, J Fluids Eng **120**(3) 457-462 (Sep 1998), 1A1205
Introduction to the Modeling of Turbulence (AIAA, Reston, VA, 1997) 2N25
Prediction and analysis of shear flow, J Hydrodyn **10**(2) 8-13 (1998), 2T1194
Selected papers from the 11th Symposium on Turbulent Shear Flows, Grenoble, France, September 8-10, 1997, Int J Heat Fluid Flow **19**(5) 393-581 (Oct 1998), 2T1201
Comment on "turbulence modeling for time-dependent RANS and VLES: A review", AIAA J **36**(9) 1766 (Sep 1998), 2T1203
Comparison of K-ε and K-ω turbulence models for simulation of shallow recirculating flows in an open channel, J Hydrodyn **10**(2) 74-86 (1998), 2T1204
Extension of k-ω shear-stress transport turbulence model for rough-wall flows, AIAA J **36**(9) 1728-1729 (Sep 1998), 2T1205
K-ε Reynolds stress turbulence model comparisons for 2D injection flows, AIAA J **36**(8) 1401-1412 (Aug 1998), 2A1206
Linear dependencies in fourth-rank turbulence tensor models, Appl Math Lett **11**(5) 79-83 (Sep 1998), 2A1207
Reply to M Germano, AIAA J **36**(9) 1767 (Sep 1998), 2T1208
Wall-distance-free turbulence models applied to incompressible flows, Int J Comput Fluid Dyn **10**(3) 241-253 (1998), 2T1210
Numerical prediction of the dynamic behavior of turbulent diffusion flames, J Eng Gas Turbines Power **120**(4) 713-720 (Oct 1998), 2A1389
Simulation of vortex shedding past a square cylinder with different turbulence models, Int J Numer Methods Fluids **28**(4) 601-616 (Sep 1998), 3A1063
Dynamic LES scheme for the vorticity transport equation: Formulation and *a priori* tests, J Comput Phys **145**(2) 693-730 (Sep 1998), 3A1164
Further development of the k-ζ (enstrophy) turbulence closure model, AIAA J **36**(10) 1825-1833 (Oct 1998), 3A1165
General class of commutative filters for LES in complex geometries, J Comput Phys **146**(1) 82-104 (Oct 1998), 3A1166
Truncation error analysis of the rotational form for the convective terms in the Navier-Stokes equation, J Comput Phys **145**(2) 671-692 (Sep 1998), 3A1167
Fundamentals of Turbulence Modeling (Taylor & Francis, PA, 1998) 4R21
Computation and Comparison of Efficient Turbulence Models for Aeronautics: European Research Project ETMA (Verlag Vieweg, Wiesbaden, 1998) 4N24
Effect of the numerical scheme on the subgrid scale term in large-eddy simulation, Phys Fluids **10**(11) 3020-3022 (Nov 1998), 4T1224
Hyperviscosity and vorticity-based models for subgrid scale modeling, Appl Sci Res **59**(4) 409-420 (1997), 4A1225
Implicit finite volume approach of the k-ε turbulence model on unstructured grids, Z Angew Math Mech **78**(11) 743-757 (1987), 4A1226
Measurement and modeling of homogeneous axisymmetric turbulence, J Fluid Mech **374** 59-90 (Nov 1998), 5A1072
Spectral-dynamic model for large-eddy simulations of turbulent rotating channel flow, Theor Comput Fluid Dyn **12**(3) 149-177 (Nov 1998), 5A1081
Computation of separated-flow transition using a two-layer model of turbulence, J Turbomachinery **121**(1) 78-87 (Jan 1999), 5A1086
Dynamic model for subgrid-scale variance and dissipation rate of a conserved scalar, Phys Fluids **10**(12) 3041-3044 (Dec 1998), 5T1087
Large eddy simulation of the subcritical flow past a circular cylinder: Numerical and modeling aspects, Int J Numer Methods Fluids **28**(9) 1281-1302 (Dec 1998), 5A1088
Numerical study of the effective viscosity and pressure in perturbed turbulent flows, Phys Fluids **10**(12) 3111-3125 (Dec 1998), 5T1089
Recent experience with different turbulence models applied to the calculation of flow over aircraft components, Prog Aerospace Sci **34**(7-8) 481-541 (Nov-Dec 1998), 5A1090
Geometry independent near-wall Reynolds-stress closure, Int J Eng Sci **37**(1) 33-57 (Jan 1999), 6A1281
Quantum kinetic model of turbulence, Physica D **124**(1-3) 225-247 (Dec 1998), 6A1282
Reynolds number dependence of the second-order turbulent pressure structure function, Phys Fluids **11**(1) 241-243 (Jan 1999), 6T1283
Large-eddy simulation methodology in generalized curvilinear coordinates, J Comput Phys **148**(2) 322-340 (Jan 1999), 6T1285
Simulations of turbulent methane jet diffusion flames with local extinction effects, Fluid Dyn Res **24**(2) 103-119 (Feb 1999), 6A1422
Modeling turbulent wall flows subjected to strong pressure variations, J Fluids Eng **121**(1) 57-64 (Mar 1999), 7A1044
Numerical modeling of momentumless turbulent wake dynamics in a linearly stratified medium, Comput Fluids **28**(3) 281-306 (Mar 1999), 7A1091
Very large-scale motion in the outer layer, Phys Fluids **11**(2) 417-422 (Feb 1999), 7A1095
Comparison of linear and nonlinear RNG-based k-ε models for incompressible turbulent flows, Numer Heat Transfer B **35**(1) 1-22 (Jan-Feb 1998), 7A1100
Dynamic testing of subgrid models in large eddy simulation based on the Germano identity, Phys Fluids **11**(2) 245-247 (Feb 1999), 7A1101
Experimental analysis of intermittent coherent structures in the near field of a high Re turbulent jet flow, Phys Fluids **11**(2) 423-431 (Feb 1999), 7A1102
Linear and nonlinear models of anisotropic turbulence, Annu Rev Fluid Mech **31** 1-53 (1999), 7A1103
Three-dimensional prediction method for thermal diffusion, China Ocean Eng **12**(3) 309-321 (1998), 7A1104
Reynolds stress modeling of a jet and swirl interaction inside a gas turbine combustor, Int J Numer Methods Fluids **29**(4) 451-464 (Feb 1999), 7A1505
Prediction of developing turbulent pipe flow by a modified k-ε-γ model, AIAA J **37**(2) 268-270 (Feb 1999), 8T1122
Large-eddy simulations of a round jet in crossflow, J Fluid Mech **379** 71-104 (Jan 1999), 8A1147
Dynamical model for turbulence - IX: Reynolds stresses for shear-driven flows, Phys Fluids **11**(3) 678-691 (Mar 1999), 8T1177
Dynamical model for turbulence - VII: Complete system of five orthogonal tensors for shear-driven flows, Phys Fluids **11**(3) 659-677 (Mar 1999), 8A1178
Dynamical model for turbulence - VIII: IR and UV Reynolds stress spectra for shear-driven flows, Phys Fluids **11**(3) 665-677 (Mar 1999), 8A1179
Correction to the four-fifths law due to variations of the dissipation, Phys Fluids **11**(3) 510-512 (Mar 1999), 8T1202
LES model sensitivities to domains, grids, and large-eddy timescales, J Atmos Sci **56**(4) 599-604 (Feb 1999), 8T1203
One-equation turbulence model of Spalart and Allmaras in supersonic separated flows, AIAA J **37**(3) 391-393 (Mar 1999), 8T1204
Turbulent force as a diffusive field with vortical sources, Phys Fluids **11**(3) 627-635 (Mar 1999), 8A1205
Two-phase modeling of a fluid mixing layer, J Fluid Mech **378** 119-143 (Jan 1999), 8A1206
Hydrodynamic and Magnetohydrodynamic Turbulent Flows: Modelling and Statistical Theory (Kluwer, Netherlands, 1998) 9R33
Predicting noninertial effects with linear and nonlinear eddy-viscosity, and algebraic stress models, Flow Turbulence Combust **60**(2) 215-234 (1998), 9T1192
Exact analytic solutions to turbulent particle flow equations, Phys Fluids **11**(5) 1249-1261 (May 1999), 9A1226
Statistical analysis of local turbulent energy fluctuations, J Fluid Mech **382** 1-26 (Mar 1999), 9A1228
Fractal model for large eddy simulation of turbulent flow, Physica D **127**(3-4) 198-232 (Mar 1999), 9A1239
Intermittency and eddy viscosities in dynamical models of turbulence, Phys Fluids **11**(5) 1221-1228 (May 1999), 9A1240
Multi-time, multi-scale correlation functions in turbulence and in turbulent models, Physica D **127**(3-4) 187-197 (Mar 1999), 9A1241
Relationship between the mean flow and subgrid stresses in large eddy simulation of turbulent shear flows, Phys Fluids **11**(5) 1229-1248 (May 1999), 9T1242
Macroscopic turbulence model for flow in a porous medium, J Fluids Eng **121**(2) 427-433 (Jun 1999), 9A1480
Conditional sampling and state space reconstruction, Exp Fluids **26**(5) 441-450 (Apr 1999), 10A1223
Large-eddy simulation of flow over wavy surfaces, J Fluid Mech **383** 75-112 (Mar 1999), 10A1224
Large-eddy simulation: Achievements and challenges, Prog Aerospace Sci **35**(4) 335-362 (May 1999), 10A1225
Particle dispersion in forced isotropic low-Mach-number turbulence, Int J Heat Mass Transfer **42**(15) 2823-2836 (Aug 1999), 10A1226
Statistical turbulence modeling: Capacities and limitations (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 343-358 (Apr 1999), 10A1227
Turbulence modeling for supercritical flows including examples with passive shock control, Aeronaut J **103**(1020) 113-125 (Feb 1999), 10A1228
Turbulence structure resulting from a vortex-wing-tip encounter, J Am Helicopter Soc **44**(2) 141-149 (Apr 1999), 10A1229
Numerical models for turbulent flows in complex geometries (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 325-331 (Apr 1999), 10A1231
Advances in Turbulence Modeling (VKI Fluid Dyn, Rhode-St-Genese, Belgium, 1998) 11N26
Finite element implementation of two-equation and algebraic stress turbulence models for steady incompressible flows, Int J Numer Methods Fluids **30**(3) 309-333 (Jun 1999), 11A49
Dynamic LES of colliding vortex rings using a 3D vortex method, J Comput Phys **152**(1) 305-345 (Jun 1999), 11A1094
Two parallel jets: comparison of the performance of three turbulence models, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 379-391 (1998), 11A1221
High-order structure functions of turbulence, J Fluid Mech **387** 3-37 (May 1999), 11A1242
Statistical model of particle transport and heat transfer in turbulent shear flows, Phys Fluids **11**(6) 1521-1534 (Jun 1999), 11A1257
Intermittency and scaling laws for wall bounded turbulence, Phys Fluids **11**(6) 1284-1286 (Jun 1999), 11A1260
Evolution and modeling of subgrid scales during rapid straining of turbulence, J Fluid Mech **387** 281-320 (May 1999), 11A1266
Generalization of the Germano identity and application to subgrid-scale modeling (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 463-466 (May 1999), 11A1267
Scale-similar models for large-eddy simulations, Phys Fluids **11**(6) 1597-1607 (Jun 1999), 11A1268
Statistical solutions to turbulent diffusion, Nonlinear Anal **37**(5) 635-675 (Aug 1999), 11T1269
Evaluation of renormalization group turbulence models for dynamic stall simulation, AIAA J **37**(6) 770-771 (Jun 1999), 11T1272
Turbulence modeling experience in ducts with forced convection flow, Numer Heat Transfer A **35**(6) 629-654 (May 1999), 11A1354
Probability density functions in steady-state Burgers turbulence, Phys Fluids **11**(8) 2143-2148 (Aug 1999), 12T1192
Analysis of turbulent motions in and around a differentially forced density interface, Theor Comput Fluid Dyn **13**(2) 129-141 (Jun 1999), 12A1202
Development of a turbulence model based on the energy spectrum for flows involving rotation, Phys Fluids **11**(8) 2225-2234 (Aug 1999), 12A1203
Lagrangian tetrad dynamics and the phenomenology of turbulence, Phys Fluids **11**(8) 2394-2410 (Aug 1999), 12T1207
Conditional moment closure for large eddy simulation of nonpremixed turbulent reacting flows, Phys Fluids **11**(7) 1896-1906 (Jul 1999), 12A1214
Approximate deconvolution procedure for large-eddy simulation, Phys Fluids **11**(7) 1699-1701 (Jul 1999), 12T1218
Conditional subgrid force and dissipation in locally isotropic and rapidly strained turbulence, Phys Fluids **11**(8) 2317-2329 (Aug 1999), 12A1219
k-ε model of turbulent buoyant stratified two-phase flow (Chinese), J Dalian Univ Tech **39**(3) 455-459 (May 1999), 12A1220
Realizability of nonlinear stress-strain relationships for Reynolds stress closures, Flow Turbulence Combust **60**(4) 333-359 (1998), 12T1221
Subgrid-scale estimation model in the physical space representation, Phys Fluids **11**(8) 2330-2342 (Aug 1999), 12T1222
Two-point closure for compressible turbulence (French), Comptes Rendus L'Acad Sci Serie II **327**(7) 665-671 (Jul 1999), 12A1223
Subgrid models and filter operations in large eddy simulations, J Atmos Sci **56**(13) 2101-2114 (Jul 1999), 12A1226

Analytical 1D second-order closure model of turbulence statistics and the Lagrangian time scale within and above plant canopies of arbitrary structure, Boundary-Layer Meteorol **91**(1) 81-107 (Apr 1999), 12T1560

372Y. Computational techniques

Turbulence Modeling for CFD, Second Edition (DCW Indust, La Canada CA, 1998) 1N27
Numerically robust 3D FE Reynolds averaged Navier-Stokes solver for the study of turbulent supersonic external flows, Comput Methods Appl Mech Eng **159**(3-4) 383-394 (Jul 1998), 1A1206
Perspective: Flow at high Reynolds number and over rough surfaces - Archilles heel of CFD, J Fluids Eng **120**(3) 434-444 (Sep 1998), 1A1207
Computation and Visualization of Three-Dimensional Vortical and Turbulent Flows (Verlag Vieweg, Wiesbaden, 1998) 2N22
Shallow-water flow solver with non-hydrostatic pressure: 2D vertical plane problems, Int J Numer Methods Fluids **28**(3) 541-563 (Sep 1998), 2A1202
Numerical simulation of randomly forced turbulent flows, J Comput Phys **145**(1) 246-279 (Sep 1998), 2T1209
Wall-distance-free turbulence models applied to incompressible flows, Int J Comput Fluid Dyn **10**(3) 241-253 (1998), 2T1210
Dynamics and statistics of concentrated vortices in turbulent flow, Eur J Mech B **17**(4) 405-675 (Jul-Aug 1998), 3A1162
Dynamic LES scheme for the vorticity transport equation: Formulation and *a priori* tests, J Comput Phys **145**(2) 693-730 (Sep 1998), 3A1164
General class of commutative filters for LES in complex geometries, J Comput Phys **146**(1) 82-104 (Oct 1998), 3A1166
Truncation error analysis of the rotational form for the convective terms in the Navier-Stokes equation, J Comput Phys **145**(2) 671-692 (Sep 1998), 3A1167
Near-wall k-ε computation of transonic turbomachinery flows with tip clearance, AIAA J **36**(10) 1769-1777 (Oct 1998), 3A1206
Computation and Comparison of Efficient Turbulence Models for Aeronautics: European Research Project ETMA (Verlag Vieweg, Wiesbaden, 1998) 4N24
Steady-state Burgers turbulence with large-scale forcing, Phys Fluids **10**(11) 2859-2866 (Nov 1998), 4T1205
Direct numerical simulation of turbulence in a stably stratified fluid and wave-shear interaction, Appl Sci Res **59**(2-3) 111-125 (1997), 4A1209
Numerical study of rotating turbulence with external forcing, Phys Fluids **10**(11) 2895-2909 (Nov 1998), 4A1211
Direct numerical simulation of viscoelastic turbulent channel flow exhibiting drag reduction: Effect of the variation of rheological parameters, J Non-Newtonian Fluid Mech **79**(2-3) 433-468 (Nov 1998), 4A1212
Age method for direct numerical simulation of turbulent shear flow, Int J Numer Methods Fluids **28**(7) 1013-1031 (Nov 1998), 4A1227
Simulations of a randomly advected passive scalar field, Phys Fluids **10**(11) 2867-2884 (Nov 1998), 4T1228
Spectral-dynamic model for large-eddy simulations of turbulent rotating channel flow, Theor Comput Fluid Dyn **12**(3) 149-177 (Nov 1998), 5A1081
Numerical investigation of the entrainment and mixing processes in neutral and stably-stratified mixing layers, Phys Fluids **11**(1) 162-185 (Jan 1999), 6A1276
Dynamic multilevel model for the simulation of the small structures in homogeneous isotropic turbulence, J Sci Comput **13**(3) 323-367 (Sep 1998), 6A1284
Large-eddy simulation methodology in generalized curvilinear coordinates, J Comput Phys **148**(2) 322-340 (Jan 1999), 6T1285
Using wavelet transform to study the Lipschitz local singular exponent in wall turbulence, Appl Math Mech **19**(10) 983-990 (Oct 1998), 6A1286
New version of simplet and its application to turbulent buoyancy-driven flows, Numer Heat Transfer A **34**(8) 821-846 (Dec 1998), 6A1363
Simulations of turbulent methane jet diffusion flames with local extinction effects, Fluid Dyn Res **24**(2) 103-119 (Feb 1999), 6A1422
Structure and dynamics of vorticity and rate of strain in incompressible homogeneous turbulence, J Fluid Mech **377** 65-97 (Dec 1998), 7A1088
Calculation of stably-stratified turbulent mixing layers with the k-ε model of turbulent buoyant flow, J Hydrodyn **10**(4) 100-105 (1998), 7T1089
Direct numerical simulation of self-similar turbulent boundary layers in adverse pressure gradients, Flow Turbulence Combust **60**(1) 47-85 (1998), 7A1092
Comparison of linear and nonlinear RNG-based k-ε models for incompressible turbulent flows, Numer Heat Transfer B **35**(1) 1-22 (Jan-Feb 1998), 7A1100
Dynamic testing of subgrid models in large eddy simulation based on the Germano identity, Phys Fluids **11**(2) 245-247 (Feb 1999), 7A1101
Computational fluid dynamics of whole-body aircraft, Annu Rev Fluid Mech **31** 125-169 (1999), 7A1105
Fully coupled Navier-Stokes solver for calculation of turbulent incompressible free surface flow past a ship hull, Int J Numer Methods Fluids **29**(2) 125-142 (Jan 1999), 7A1106
Treatment of turbulent wall boundary conditions using linear-logarithmic elements, Comput Methods Appl Mech Eng **169**(1-2) 123-134 (Jan 1999), 7A1107
Large-eddy simulation of boundary-layer transition on a swept wedge, J Fluid Mech **381** 357-380 (Feb 1999), 8A1104
Convergence acceleration of segregated algorithms using dynamic tuning additive correction multigrid strategy, Int J Numer Methods Fluids **29**(5) 515-533 (Mar 1999), 8A1207
Field Monte Carlo formulation for calculating the probability density function of a single scalar in a turbulent flow, Flow Turbulence Combust **60**(2) 157-172 (1998), 9T1233
Relationship between the mean flow and subgrid stresses in large eddy simulation of turbulent shear flows, Phys Fluids **11**(5) 1229-1248 (May 1999), 9T1242
Monotonic convergence property of turbulent flow solution with central difference and QUICK schemes, J Fluids Eng **121**(2) 351-358 (Jun 1999), 9A1243
Steady and unsteady computations of turbulent flows induced by a 4-45° pitched-blade impeller, J Fluids Eng **121**(2) 318-329 (Jun 1999), 9A1244
Dynamic Multilevel Methods and the Numerical Simulation of Turbulence (Cambridge UP, New York, 1999) 10R22
Tenth international congress on numerical methods in laminar and turbulent flow, Int J Numer Methods Fluids **29**(7) 737-895 (Apr 1999), 10A1143
Numerical simulation of interactions between rigid rod-like polymers and coherent structures in a mixing layer, J Non-Newtonian Fluid Mech **83**(1-2) 1-18 (Jun 1999), 10A1216
Large-eddy simulation of flow over wavy surfaces, J Fluid Mech **383** 75-112 (Mar 1999), 10A1224
Large-eddy simulation: Achievements and challenges, Prog Aerospace Sci **35**(4) 335-362 (May 1999), 10A1225
Deterministic numerical simulation of turbulence (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 333-341 (Apr 1999), 10A1230
Numerical models for turbulent flows in complex geometries (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 325-331 (Apr 1999), 10A1231
Dynamic LES of colliding vortex rings using a 3D vortex method, J Comput Phys **152**(1) 305-345 (Jun 1999), 11A1094
Efficient method for the solution of the incompressible Navier-Stokes equations in cylindrical geometries, J Comput Phys **151**(2) 563-584 (May 1999), 11A1137
Assessment of numerical accuracy of PDF-Monte Carlo methods for turbulent reacting flows, J Comput Phys **152**(1) 192-230 (Jun 1999), 11A1258
Mechanisms for generating coherent packets of hairpin vortices in channel flow, J Fluid Mech **387** 353-396 (May 1999), 11A1261
Evolution and modeling of subgrid scales during rapid straining of turbulence, J Fluid Mech **387** 281-320 (May 1999), 11A1266
B-spline method and zonal grids for simulations of complex turbulent flows, J Comput Phys **151**(2) 757-789 (May 1999), 11T1270
Direct numerical simulation of vortex structures and turbulent scalar transfer across a free surfacer in a fully developed turbulence, Phys Fluids **11**(6) 1581-1595 (Jun 1999), 11T1271
Evaluation of renormalization group turbulence models for dynamic stall simulation, AIAA J **37**(6) 770-771 (Jun 1999), 11T1272
Large-eddy simulation of flow in a rectangular open channel, J Hydraul Res **37**(3) 345-361 (1999), 12T1053
Performance of a three-component vorticity probe in a turbulent far-wake, Exp Fluids **27**(1) 21-30 (Jun 1999), 12A1170
Numerical simulation of the turbulent flow in rotating duct, J Hydrodyn **11**(2) 118-124 (1999), 12A1204
Approximate deconvolution procedure for large-eddy simulation, Phys Fluids **11**(7) 1699-1701 (Jul 1999), 12T1218
Subgrid-scale estimation model in the physical space representation, Phys Fluids **11**(8) 2330-2342 (Aug 1999), 12T1222
Connection between the Camassa-Holm equations and turbulent flows in channels and pipes, Phys Fluids **11**(8) 2343-2353 (Aug 1999), 12T1224
Macroturbulence measurements with electromagnetic and ultrasonic sensors: A comparison under high-turbulent flows, Exp Fluids **27**(1) 31-42 (Jun 1999), 12A1225
Subgrid models and filter operations in large eddy simulations, J Atmos Sci **56**(13) 2101-2114 (Jul 1999), 12A1226

372Z. Experimental techniques

Influence of helical-coiled wire inserts in turbulent pipe flows, Appl Mech Eng **2**(4) 511-529 (1997), 1A1208
Turbulent friction factor for two-phase: Air and power-law fluid flows through a horizontal tube, Appl Mech Eng **2**(4) 531-545 (1997), 1A1209
Pulsed-wire anemometry near walls, Exp Fluids **25**(2) 151-159 (Jul 1998), 2A1164
Joint probability density analysis of the structure and dynamics of the vorticity field of a turbulent boundary layer, J Fluid Mech **367** 291-328 (Jul 1998), 2A1196
Detailed film cooling measurements on a cylindrical leading edge model: Effect of freestream turbulence and coolant density, J Turbomachinery **120**(4) 799-807 (Oct 1998), 2A1283
Effect of swirl on the annular flow past an axisymmetric poppet valve, Proc Inst Mech Eng C **212**(C6) 473-484 (1998), 3A1121
Turbulence structure of the annular non-swirling flow past an axisymmetric poppet valve, Proc Inst Mech Eng C **212**(C6) 455-471 (1998), 3A1123
Dynamics and statistics of concentrated vortices in turbulent flow, Eur J Mech B **17**(4) 405-675 (Jul-Aug 1998), 3A1162
Turbulent phenomena in flow through porous media, J Porous Media **1**(3) 243-251 (1998), 3A1261
Three-component vorticity measurements in a turbulent grid flow, J Fluid Mech **374** 29-57 (Nov 1998), 5A1073
Assessment of Taylor's hypothesis and local isotropy due to strain applied to a nearly homogeneous and isotropic flow, Exp Fluids **26**(1-2) 136-144 (Jan 1999), 6A1273
Heat flux measurements in homogeneous curved shear flow, J Heat Transfer **121**(1) 190-194 (Feb 1999), 7A1285
MEMS applications in turbulence and flow control, Prog Aerospace Sci **35**(2) 101-203 (Feb 1999), 8A1180
Measurement of momentum and heat transport in the turbulent channel flow with embedded longitudinal vortices, Int J Heat Fluid Flow **20**(2) 128-141 (Apr 1999), 8A1298
Comparison of flying-hot-wire and stationary-hot-wire measurements of flow over a backward-facing step, J Fluids Eng **121**(2) 441-445 (Jun 1999), 9A1245
Near wall structure in vertical air-water annular flows, Int J Multiphase Flow **25**(3) 459-476 (Apr 1999), 10T1218
Correction of hot-wire measurements in the near-wall region, Exp Fluids **26**(5) 475-477 (Apr 1999), 10A1232
Low free-stream turbulence in test sections through packed beds and fibrous mats, Exp Fluids **26**(5) 451-459 (Apr 1999), 10A1233
Image processing and velocity measurements in the turbulent boundary layer of a laboratory shallow channel, J Hydrology and Hydromech **47**(2) 81-92 (1999), 11T1196
Two-point description of two-fluid turbulent mixing - II: Numerical solutions and comparisons with experiments, Int J Multiphase Flow **25**(4) 639-682 (Jun 1999), 11T1254
Influence of surfactant additives on friction losses in the turbulent flow, Appl Mech Eng **4**(S) 441-446 (1999), 11T1273
Turbulence spectra and length scales measured in film coolant flows emerging from discrete holes, J Turbomachinery **121**(3) 551-557 (Jul 1999), 11A1274
Influence of a drag-reducing surfactant on a turbulent velocity field, J Fluid Mech **388** 1-20 (Jun 1999), 12A1146

374. ELECTROMAGNETO-FLUID AND PLASMA DYNAMICS

374A. General theory

Evolution of solitary waves in multicomponent plasmas, Chaos Solitons Fractals **9**(6) 901-911 (Jun 1998), 1A1210
Lagrangian picture of plasma physics: Part 2, J Tech Phys **39**(1) 3-35 (1998), 1T1211
Kinetics of a model weakly ionized plasma in the presence of multiple equilibria, Arch Rational Mech Anal **142**(3) 193-218 (1998), 2A1211
Self-consistent modeling of volume and surface processes in air plasma, AIAA J **36**(9) 1643-1651 (Sep 1998), 2A1212
Fourth international symposium on fusion nuclear technology Tokyo, Japan, April 6 - 11, 1997: Part A, Fusion Eng Des **39-40** 1-1060 (Sep 1998), 4T1229
Data acquisition and management for fusion research: Garching, Germany: July 22-24 1997, Fusion Eng Des **43**(3-4) 239-456 (Jan 1999), 6T511
Deuterium trapping by carbon materials for tokamak plasma-facing components, Fusion Eng Des **43**(2) 129-145 (Dec 1998), 6A1287
Disruption induced mechanical loads calculated with a coupled 3D eddy current and 2D MHD plasma model, Fusion Eng Des **43**(2) 173-187 (Dec 1998), 6A1288
Optimal choice of the geometrical descriptors for tokamak plasma shape control, Fusion Eng Des **43**(2) 115-127 (Dec 1998), 6A1289
Progress in Fluid Flow Research: Turbulence and Applied MHD (AIAA, Reston, VA, 1998) 7N28
Simulation studies of plasma initiation and disruption in JT-60U, Fusion Eng Des **45**(1) 15-29 (Mar 1999), 8A1208
Zero-mass-electrons limits in hydrodynamic models for plasmas, Appl Math Lett **12**(4) 75-79 (May 1999), 9A1246
Electrohydrodynamics (Springer-Verlag, Vienna, 1998) 10R23
Topological Methods in Hydrodynamics (Springer-Verlag, New York, 1998) 12R24

374D. Flow in magnetic fields

Effects of a transverse magnetic field on natural convection with temperature dependent viscosity in micropolar fluids, Appl Mech Eng **3**(2) 287-304 (1998), 1T1212
Magnetoconvection in a micropolar fluid, Int J Eng Sci **36**(10) 1173-1181 (Aug 1998), 1A1213
Magnetohydrodynamic disk braking, Appl Mech Eng **2**(3) 341-351 (1997), 1A1214
Numerical solution of the viscous flow past a circular cylinder under the influence of a magnetic field, Eng Trans **45**(3-4) 349-362 (1997), 1A1215
Stability of hydromagnetic dissipative Couette flow with non-axisymmetric disturbance, J Fluid Mech **366** 135-158 (Jul 1998), 1A1216
Thermosolutal convection in Rivlin-Ericksen fluid in porous medium in hydromagnetics, Appl Mech Eng **3**(1) 171-180 (1998), 1T1217
Unsteady MHD flow near a rotating porous disk with uniform suction or injection, Fluid Dyn Res **23**(5) 283-290 (Nov 1998), 3A1060
Thermoelectrically driven melt motion during floating zone crystal growth with an axial magnetic field, J Fluids Eng **120**(4) 839-843 (Dec 1998), 3A1065
Forced convection during liquid encapsulated crystal growth with an axial magnetic field, J Fluids Eng **120**(4) 844-850 (Dec 1998), 3A1120
Effect of thermocapillarity on the production of a conducting thin film in the presence of a transverse magnetic field, Z Angew Math Mech **78**(9) 635-640 (1998), 3A1168
Effect of uniform suction-blowing on heat transfer of magnetohydrodynamic Hiemenz flow through porous media, Acta Mech **130**(3-4) 147-158 (1998), 3A1169
Nonlinear evolution of a weakly unstable wave in a free shear flow with a weak parallel magnetic field, J Fluid Mech **369** 217-252 (Aug 1998), 3A1170
Probing magnetic paints through magnetorheological and susceptibility measurements, J Rheol **42**(5) 1249-1267 (Sep-Oct 1998), 3A1171
Numerical solution of the ideal magnetohydrodynamic equations for a supersonic channel flow, J Thermophys Heat Transfer **12**(4) 507-513 (Oct-Dec 1998), 4A1086
Viscous fingering in a magnetic fluid - I: Radial Hele-Shaw flow, Phys Fluids **10**(10) 2464-2472 (Oct 1998), 4A1204
Instability of a plane conducting free surface submitted to an alternating magnetic field, J Fluid Mech **375** 65-83 (Nov 1998), 5A1091
Magnetohydrodynamic flow over a vertical stretching surface with suction and blowing, Heat and Mass Transfer Warme **34**(2-3) 121-125 (Oct 1998), 5A1092
Synthesis and characterization of bilayer ferrofluids, Mat Manuf Processes **13**(6) 821-828 (1998), 5T1093
Energy constraints in forced recirculating MHD flows, J Fluid Mech **375** 319-343 (Nov 1998), 5A1094
Magnetohydrodynamic flow past a plate by the presence of radiation, Heat and Mass Transfer Warme **34**(2-3) 107-109 (Oct 1998), 5A1285
Influence of a high magnetic field on the corrosion and deposition processes in the liquid Pb-17Li alloy, Fusion Eng Des **43**(2) 199-208 (Dec 1998), 6A1290
Particle-tracking within turbulent cylindrical electromagnetically-driven flow, Int J Numer Methods Fluids **29**(1) 59-74 (Jan 1999), 6A1291
Maintaining pressure positivity in magnetohydrodynamic simulations, J Comput Phys **148**(1) 133-148 (Jan 1999), 6T1293
Study of optimum load-bearing capacity for slider bearings lubricated with couple stress fluids in magnetic field, Trib Int **31**(7) 393-400 (Jul 1998), 6T1335

Axial oscillation of a magnetically levitated nonmagnetic fluid column inside a straight magnetic pipe, Fluid Dyn Res **24**(3) 147-159 (Mar 1999), 7A1108
Magnetohydrodynamics in materials processing, Annu Rev Fluid Mech **31** 273-300 (1999), 7A1109
Strongly nonlinear vortices in magnetized ferrofluids, J Austral Math Soc B **40**(2) 146-170 (Oct 1998), 7A1110
Transient MHD flow and heat transfer between two parallel plates with temperature dependent viscosity, Mech Res Commun **26**(1) 115-121 (Jan-Feb 1999), 7T1111
Experimental and numerical study of Rayleigh-Benard convection affected by a rotating magnetic field, Phys Fluids **11**(4) 853-861 (Apr 1999), 8A1010
Dispersive waves in a coupled system of magnetic fluid and elastic membrane, JSME Int J Ser B **41**(3) 583-589 (Aug 1998), 8A1209
Kinematic characteristics of magnetic fluid sloshing in a rectangular container subject to non-uniform magnetic fields, Exp Fluids **26**(3) 215-221 (Feb 1999), 8A1210
Magnetohydrodynamic convection in molten gallium, J Fluid Mech **378** 97-118 (Jan 1999), 8A1211
Magnetohydrodynamic flow in a rectangular duct in a cusped magnetic field, Phys Fluids **11**(4) 931-939 (Apr 1999), 8T1212
Magnetohydrodynamic flow in precessing spherical shells, J Fluid Mech **379** 303-318 (Jan 1999), 8A1213
Staggered mesh algorithm using high order Godunov fluxes to ensure solenoidal magnetic fields in magnetohydrodynamic simulations, J Comput Phys **149**(2) 270-292 (Mar 1999), 8T1214
Study on active damper with a magnetic fluid, JSME Int J Ser B **41**(4) 822-829 (Nov 1998), 8A1215
Monotone scheme and boundary conditions for finite volume simulation of magnetohydrodynamic internal flows at high Hartmann number, J Comput Phys **150**(1) 181-198 (Mar 1999), 8A1220
Hydrodynamic and Magnetohydrodynamic Turbulent Flows: Modelling and Statistical Theory (Kluwer, Netherlands, 1998) 9R33
Instabilities of dynamic thermocapillary liquid layers with magnetic fields, J Fluid Mech **382** 87-108 (Mar 1999), 9A1132
Kinematic dynamo action in a network of screw motions: Application to the core of a fast breeder reactor, J Fluid Mech **382** 137-154 (Mar 1999), 9A1247
Low frequency wave propagation in a cold magnetized dusty plasma, Planet Space Sci **47**(1-2) 273-280 (Jan-Feb 1999), 9A1248
Recent trends in science and technology of magnetic fluids, Indian J Eng Mat Sci **5**(6) 343-489 (Dec 1998), 9A1249
Ultra-low-frequency electrostatic waves in a self-gravitating magnetized and inhomogeneous dusty plasma, Planet Space Sci **47**(1-2) 79-83 (Jan-Feb 1999), 9A1250
Heimenz flow of a micropolar fluid in hydromagnetics, Appl Mech Eng **3**(3) 367-376 (1998), 10T1234
Magnetohydrodynamic stability of streaming liquid cylinder with doubly perturbed interfaces having a streaming fluid mantle jet, Arch Mech **50**(4) 715-730 (1998), 10A1235
Resonance absorption of ultrasonic waves in a magnetic fluid, Arch Acoust **23**(2) 195-210 (1998), 10A1236
Stationary incompressible MHD perturbations generated by a current source in a moving plasma, Planet Space Sci **47**(3-4) 545-555 (Mar-Apr 1999), 10A1237
Strongly nonlinear magnetoconvection in 3Ds, Physica D **128**(2-4) 105-129 (Apr 1999), 10A1238
Asymptotic solutions for nonlinear magnetoconvection, J Fluid Mech **387** 397-409 (May 1999), 11A1275
Mechanism of deformation of a liquid conductor with current, J Tech Phys **39**(3-4) 473-482 (1998), 11T1276
Stability of fast parallel MHD shock waves in polytropic gas, Eur J Mech B **18**(2) 197-211 (Mar-Apr 1999), 11T1277
Transport of vorticity in fluid in the presence of suspended magnetic particles in porous medium, Appl Mech Eng **4**(1) 35-43 (1999), 11T1278
Long waves on a thin layer of conducting fluid flowing down an inclined plane in an electromagnetic field, Eur J Mech B **18**(2) 295-313 (Mar-Apr 1999), 11T1281
Numerical modeling of magnetohydrodynamic convection in a rapidly rotating spherical shell: Weak and strong field dynamo action, J Comput Phys **153**(1) 51-81 (Jul 1999), 12A1073
Onset of convective instabilities in cylindrical cavities heated from below - Part II: Effect of a magnetic field, Phys Fluids **11**(8) 2089-2100 (Aug 1999), 12T1074
Magnetic-field generation and turbulence suppression due to cross-helicity effects, Phys Fluids **11**(8) 2307-2316 (Aug 1999), 12T1190
Validity of a nonlocal approach for MHD turbulence, Phys Fluids **11**(8) 2298-2306 (Aug 1999), 12A1213
Nonaxisymmetric flow in a finite-length cylinder with a rotating magnetic field, Phys Fluids **11**(7) 1821-1826 (Jul 1999), 12A1227
Onset of steady Benard-Marangoni convection in a two-layer system of conducting fluid in the presence of a uniform magnetic field, J Eng Math **35**(4) 385-404 (May 1999), 12A1228
Stability of the Hartmann layer, Phys Fluids **11**(8) 2058-2068 (Aug 1999), 12A1229
Coulomb-driven flow of a dielectric liquid subject to charge injection by a sharp electrode, Phys Fluids **11**(8) 2434-2436 (Aug 1999), 12T1230

374E. Flow in electric fields

Stability of hydromagnetic dissipative Couette flow with non-axisymmetric disturbance, J Fluid Mech **366** 135-158 (Jul 1998), 1A1216
Theoretical and experimental investigations on instability of an electrically charged liquid jet, Int J Multiphase Flow **24**(4) 605-615 (Jun 1998), 1A1218
Electrohydrodynamic deformation and interaction of drop pairs, J Fluid Mech **368** 359-375 (Aug 1998), 3A1098
Electrorheological fluids response under mechanical testing, J Intelligent Mat Syst Struct **9**(1) 44-52 (Jan 1998), 4A991
Study of electrorheological fluids behavior under fatigue tests, J Intelligent Mat Syst Struct **9**(1) 53-59 (Jan 1998), 4A993
Electrophoretic motion of a charged spherical particle normal to a planar dielectric wall, Int J Multiphase Flow **24**(5) 793-824 (Aug 1998), 4A1110
Study of a high-velocity liquid jet stressed by an electric field, Phys Fluids **10**(11) 2922-2931 (Nov 1998), 4T1202
Electrohydrodynamic stability of a liquid column under cross fields: Application to continuous flow electrophoresis, Phys Fluids **10**(10) 2439-2450 (Oct 1998), 4A1230
Energy constraints in forced recirculating MHD flows, J Fluid Mech **375** 319-343 (Nov 1998), 5A1094
Stability analysis of a Taylor-Couette flow of insulating fluid subjected to radial unipolar injection of charge, Phys Fluids **10**(12) 3088-3098 (Dec 1998), 5A1095
Large amplitude oscillatory shear of ER suspensions, J Non-Newtonian Fluid Mech **81**(1-2) 83-104 (Feb 1999), 6A1146
Particle-tracking within turbulent cylindrical electromagnetically-driven flow, Int J Numer Methods Fluids **29**(1) 59-74 (Jan 1999), 6A1291
Maintaining pressure positivity in magnetohydrodynamic simulations, J Comput Phys **148**(1) 133-148 (Jan 1999), 6T1293
Effect of matrix viscoelasticity on the electrorheological properties of particle suspensions, J Non-Newtonian Fluid Mech **81**(3) 235-250 (Mar 1999), 7A939
Transient MHD flow and heat transfer between two parallel plates with temperature dependent viscosity, Mech Res Commun **26**(1) 115-121 (Jan-Feb 1999), 7T1111
Optical characterization of chevron texture formation in nematic electoconvection, Physica D **126**(3-4) 171-188 (Feb 1999), 8A1216
Structure of Taylor cone-jets: Limit of low flow rates, J Fluid Mech **378** 167-196 (Jan 1999), 8A1217
Theoretical study on equation of motion and yield stress of electrorheological fluid, JSME Int J Ser B **40**(4) 521-528 (Nov 1997), 8A1218
Fluid dynamics of a double emulsion droplet in an electric field, Phys Fluids **11**(5) 1029-1041 (May 1999), 9A1172
Hydrodynamic stability of the plane Poiseuille flow of an electrorheological fluid, Int J Non-Linear Mech **34**(4) 589-602 (Jul 1999), 9A1251
Electrohydrodynamics (Springer-Verlag, Vienna, 1998) 10R23
Three-dimensional analysis of the steady-state shape and small-amplitude oscillation of a bubble in uniform and nonuniform electric fields, J Fluid Mech **384** 59-91 (Apr 1999), 11A1188
Stability of fast parallel MHD shock waves in polytropic gas, Eur J Mech B **18**(2) 197-211 (Mar-Apr 1999), 11T1277
ER fluid application for chemical technology, Appl Mech Eng **4**(S) 253-258 (1999), 11T1279
Influence of the ionic strengths of polyacrylamide and xanthan gum, Appl Mech Eng **4**(S) 283-288 (1999), 11T1280
Long waves on a thin layer of conducting fluid flowing down an inclined plane in an electromagnetic field, Eur J Mech B **18**(2) 295-313 (Mar-Apr 1999), 11T1281
Simulation of the flow of an electrorheological fluid between rotating surfaces of revolution, Appl Mech Eng **4**(S) 265-270 (1999), 11T1282
Solutions of electrohydrodynamic flow in a circular cylindrical conduit, Z Angew Math Mech **79**(5) 357-360 (1999), 11A1283
Response of electrorheological fluid under oscillatory squeeze flow, J Non-Newtonian Fluid Mech **84**(2-3) 149-158 (Aug 1999), 12A1044
Jet and drops formation in electrohydrodynamic spraying of liquids: A systematic approach, Exp Fluids **27**(1) 43-52 (Jun 1999), 12A1130
Magnetic-field generation and turbulence suppression due to cross-helicity effects, Phys Fluids **11**(8) 2307-2316 (Aug 1999), 12T1190
Validity of a nonlocal approach for MHD turbulence, Phys Fluids **11**(8) 2298-2306 (Aug 1999), 12A1213
Stability of the Hartmann layer, Phys Fluids **11**(8) 2058-2068 (Aug 1999), 12A1229
Coulomb-driven flow of a dielectric liquid subject to charge injection by a sharp electrode, Phys Fluids **11**(8) 2434-2436 (Aug 1999), 12T1230
Methanol conversion from methane and water vapor by electric discharge: Effect of electric discharge process on methane conversion, Heat Transfer Asian Res **28**(5) 404-417 (1999), 12A1231

374H. Heat transfer aspects

Magnetohydrodynamic flow over a vertical stretching surface with suction and blowing, Heat and Mass Transfer Warme **34**(2-3) 121-125 (Oct 1998), 5A1092
Advanced antenna system for Alfven wave plasma heating and current drive in TCABR tokamak, Fusion Eng Des **43**(1) 15-28 (Oct 1998), 5A1096
International Thermonuclear Experimental Reactor port limiter design, Fusion Eng Des **43**(1) 75-92 (Oct 1998), 5A1097
Numerical study of magneto-fluid mechanic combined free-and-forced convection heat transfer, Int J Heat Mass Transfer **42**(3) 467-475 (Feb 1999), 5A1204
Dimensional analysis of critical heat flux in subcooled water flow under one-side heating conditions for fusion application, Fusion Eng Des **43**(2) 147-171 (Dec 1998), 6A1292
Numerical study of coupled electromagnetic and aerothermodynamic phenomena in a circuit breaker electric arc, Int J Heat Mass Transfer **42**(9) 1723-1734 (May 1999), 7A1112
Magnetohydrodynamics transient free convection in open-ended vertical annuli, J Thermophys Heat Transfer **13**(2) 256-265 (Apr-Jun 1999), 10A1308
Temperature distribution and heat transfer in anisotropic electromechanical converter, Int J Heat Mass Transfer **42**(19) 3631-3641 (Oct 1999), 12A1232

374Y. Computational techniques

Effect of the magnetopause shapes of Jupiter and Saturn on magnetosheath parameters, Planet Space Sci **46**(5) 507-514 (May 1998), 1A1219
Gas flow through the laser-sustained plasmas, Arch Mech **50**(2) 207-218 (1998), 1A1220
Transport properties of the ionized Fe vapor, J Tech Phys **39**(1) 37-66 (1998), 1A1221
Self-consistent modeling of volume and surface processes in air plasma, AIAA J **36**(9) 1643-1651 (Sep 1998), 2A1212
Effect of magnetic field on the structure of high-speed flows, J Spacecraft Rockets **35**(5) 639-646 (Sep-Oct 1998), 4A1231
Painleve analysis and Backlund transformations for coupled generalized Schrodinger-Boussinesq systems, Chaos Solitons Fractals **9**(10) 1747-1753 (Oct 1998), 4A1232
Adaptive FEM for magnetohydrodynamics, J Comput Phys **147**(2) 318-336 (Dec 1998), 5A1098
Godunov-type schemes for magnetohydrodynamics - 1: A model system, J Comput Phys **147**(2) 545-567 (Dec 1998), 5T1099
Numerical approach for a study of the hydrogen isotopes separation by palladium alloy membranes, Fusion Eng Des **43**(1) 93-100 (Oct 1998), 5A1100
Particle-tracking within turbulent cylindrical electromagnetically-driven flow, Int J Numer Methods Fluids **29**(1) 59-74 (Jan 1999), 6A1291
Maintaining pressure positivity in magnetohydrodynamic simulations, J Comput Phys **148**(1) 133-148 (Jan 1999), 6T1293
Simulation studies of plasma initiation and disruption in JT-60U, Fusion Eng Des **45**(1) 15-29 (Mar 1999), 8A1208
Staggered mesh algorithm using high order Godunov fluxes to ensure solenoidal magnetic fields in magnetohydrodynamic simulations, J Comput Phys **149**(2) 270-292 (Mar 1999), 8T1214
Conservative stabilized FEM for the magnetohydrodynamic equations, Int J Numer Methods Fluids **29**(5) 535-554 (Mar 1999), 8A1219
Monotone scheme and boundary conditions for finite volume simulation of magnetohydrodynamic internal flows at high Hartmann number, J Comput Phys **150**(1) 181-198 (Mar 1999), 8A1220
High-order WENO finite difference scheme for the equations of ideal magnetohydrodynamics, J Comput Phys **150**(2) 561-594 (Apr 1999), 9T1252
Roe scheme for ideal MHD equations on 2D adaptively refined triangular grids, J Comput Phys **150**(2) 373-393 (Apr 1999), 9A1253
Discontinuous Galerkin method for the viscous MHD equations, J Comput Phys **152**(2) 608-641 (Jul 1999), 12T1233
Numerical analysis of conservative and entropy schemes for the Fokker-Planck-Landau equation, SIAM J Numer Anal **36**(3) 953-973 (Mar-May 1999), 12A1234

374Z. Experimental techniques

Comparison of the rheological properties of electrorheological fluids at between shear and flow mode: A new scanning electrorheometer, Appl Mech Eng **4**(S) 259-264 (1999), 11T1284
Comprehensive study of measurement uncertainty in tomographic reconstruction of void-profiles in a mercury-nitrogen flow, Exp Fluids **26**(6) 535-541 (May 1999), 11A1285

376. NAVAL HYDROMECHANICS

376A. General theory

Solution of the nonlinear roll model by a generalized asymptotic method, Ocean Eng **26**(11) 1169-1181 (Nov 1999), 12A1235

376C. Ship motions, resistance, performance

Multiobjective fuzzy comprehensive assessment and its application to assessment of ship's principal dimensions (Chinese), J Dalian Univ Tech **38**(4) 373-377 (Jul 1998), 1A374
Experimental measurement of sideforce and induced drag on catamaran demihulls, Int Shipbuild Prog **45**(443) 225-235 (Sep 1998), 1A1222
Optimal ship form design under limiting constraint: Minimizing wave-making resistance hull (Chinese), J Dalian Univ Tech **38**(4) 378-381 (Jul 1998), 1A1223
Roll motion and stabilizing of a box-shaped ship with extra shallow draft, Int Shipbuild Prog **45**(443) 267-281 (Sep 1998), 1A1224
Simulation of swath ship motion with controllable fin in longitudinal waves, Int Shipbuild Prog **45**(443) 283-307 (Sept 1998), 1A1225
Study of model test appropriation for manueverability of large ship (Chinese), J Dalian Univ Tech **38**(4) 489-492 (Jul 1998), 1A1226
Effect of motion phases on wave load encountered by oceangoing ships, J Dalian Univ Tech **38**(4) 469-474 (Jul 1998), 1A1230
Effect of slow-drift loads on nonlinear dynamics of spread mooring systems, J Offshore Mech Arctic Eng **120**(4) 201-211 (Nov 1998), 2A1213
Observations on the heave behavior of spar platforms, J Offshore Mech Arctic Eng **120**(4) 221-225 (Nov 1998), 2A1214
Safe carriage of ore concentrates in double hull bulkers, Ship Tech Res **45**(3) 82-87 (Jul 1998), 3A1172
Full scale decay test of a tanker: Field data and theoretical analysis, Ocean Eng **26**(2) 125-145 (Feb 1999), 3T1177
Dynamic characteristics and response analysis of accelerating underwater structures, Struct Eng and Mech **6**(6) 613-632 (Sep 1998), 4A1233
Multi-term coupling method for the analysis of wave-induced ship motion in nonlinear random waves (Japanese), Proc JSCE **600**(II-44) 105-117 (Aug 1998), 4A1234
Simulation on maneuvering response for rudder deflection in shallow water of LNGC (Chinese), J Shanghai Jiaotong Univ **32**(7) 94-98 (Jul 1998), 4A1235
Time-domain analysis of wave forces on ships with forward speed, J Hydrodyn **10**(3) 29-38 (1998), 4T1236
Identification of ship coupled heave-pitch motions using neural networks, Ocean Eng **26**(5) 381-400 (May 1999), 4T1237
Algebraic discrete nonlocal absorbing boundary condition for the ship wave resistance problem, J Comput Phys **146**(2) 570-602 (Nov 1998), 4T1240
Preliminary design of differentiated compliance anchoring systems, J Offshore Mech Arctic Eng **121**(1) 9-15 (Feb 1999), 5A98
Application of a two-fluid finite volume method to ship slamming, J Offshore Mech Arctic Eng **121**(1) 47-52 (Feb 1999), 5A249
Added resistance and unsteady bow wave field of a ship in short waves, Acta Polytech Scand Mech Eng **0**(133) 3-96 (1998), 5A1101
Improved method for the theoretical prediction of the wave resistance of transom-stern hulls using a slen-

der body approach, Int Shipbuild Prog **45**(444) 331-349 (Dec 1998), 5A1102
Optimum hull spacing of a family of multihulls, Ship Tech Res **45**(4) 180-195 (Oct 1998), 5A1103
Seakeeping computations of a blunt ship capturing the influence of the steady flow, Ship Tech Res **45**(4) 159-171 (Oct 1998), 5A1104
Buckling and postbuckling of composite ship panels stiffened with preform frames, Ocean Eng **26**(8) 793-803 (Aug 1999), 7T1113
Unsteady model of sail and flow interaction, J Fluids Struct **13**(1) 37-59 (Jan 1999), 8A1222
Application of the Melnikov method to nonlinear ship rolling in waves (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 1-6 (Jan 1999), 9A1254
Asymmetric hydrodynamic impact and dynamic response of vessels, J Offshore Mech Arctic Eng **121**(2) 83-89 (May 1999), 9A1255
Investigation into the effect of turret mooring location on the vertical motions of an FPSO vessel, J Offshore Mech Arctic Eng **121**(2) 71-76 (May 1999), 9A1256
Heave oscillations of a submerged vertical cylinder in a viscous fluid, Int J Offshore Polar Eng **8**(3) 173-181 (Sep 1998), 10A1239
Hydrodynamic coefficients of rolling rectangular cylinders, Int J Offshore Polar Eng **8**(4) 241-250 (Dec 1998), 10A1240
Parametric identification of maneuvering models for ships, Int Shipbuild Prog **46**(445) 5-27 (Apr 1999), 10A1241
Re-optimization of the hull form of a fast displacement catamaran ferry, Ship Tech Res **46**(1) 31-34 (Feb 1999), 10A1242
Risk-based decisions for entrance channel operation and design, Int J Offshore Polar Eng **8**(3) 200-206 (Sep 1998), 10A1243
Study of parametric roll motions by fully nonlinear numerical wave tank, Int J Offshore Polar Eng **8**(4) 251-257 (Dec 1998), 10A1244
System for measuring the six degrees of motion of a moving body, Ship Tech Res **46**(1) 4-7 (Feb 1999), 10A1245
Numerical simulation of Reynolds number effect on effective wake field and hydrodynamic performance of propeller behind ship, J Hydrodyn **11**(1) 79-87 (1999), 10T1254
Coupled dynamic analysis of a moored spar in random waves and currents (time-domain versus frequency-domain analysis), J Offshore Mech Arctic Eng **121**(3) 194-200 (Aug 1999), 11A1286
Experimental determination of the hydrodynamic coefficients of an underwater manipulator, J Robotic Syst **16**(6) 329-338 (Jun 1999), 11A1287
Finite element solution of free-surface ship-wave problems, Int J Numer Methods Eng **45**(5) 503-528 (Jun 1999), 11A1288
Stochastic response analysis of deepwater structures in short-crested random seas, J Offshore Mech Arctic Eng **121**(3) 181-186 (Aug 1999), 11A1289
Investigation on the applicability of simplified mathematical models to the roll-sloshing problem, Int J Offshore Polar Eng **9**(2) 97-104 (Jun 1999), 12A247
Solution of the nonlinear roll model by a generalized asymptotic method, Ocean Eng **26**(11) 1169-1181 (Nov 1999), 12A1235

376G. Ship stability and control

Application of extended state space to nonlinear ship rolling, Ocean Eng **26**(3) 227-240 (Mar 1999), 3A1173
Estimating main dimensions and coefficients in preliminary ship design, Ship Tech Res **45**(3) 96-98 (Jul 1998), 3A1174
Survivability of damaged ro-ro passenger vessels, Ship Tech Res **45**(3) 105-117 (Jul 1998), 3A1175
Comparison between prescriptive and performance-based criteria for assessing Ro-Ro damage survivability, Int Shipbuild Prog **45**(444) 351-382 (Dec 1998), 5A1105
Feasibility of a central turret in FPSO systems, J Offshore Mech Arctic Eng **121**(2) 77-82 (May 1999), 9A1257
Hybrid modeling, simulation and torque control of a marine propulsion system, J Syst Control Eng **213**(I1) 1-10 (1999), 9A1258
Characterization of flooding process of damaged Ro-Ro vessel, Int J Offshore Polar Eng **8**(3) 192-199 (Sep 1998), 10A1246
Effect of water inside a ship in its damage stability, Int J Offshore Polar Eng **8**(4) 280-282 (Dec 1998), 10T1247
Survival analysis of a deep-water floating offshore platform about its critical axis including coupling, Int J Offshore Polar Eng **8**(2) 115-121 (Jun 1998), 10A1248
Bifurcations in ship rolling: Experimental results and parameter identification technique, Ocean Eng **26**(11) 1095-1123 (Nov 1999), 12T1236

376I. Ship propulsion

Calculation of the performance of a ship propeller with cyclic blade pitch control, Int Shipbuild Prog **45**(443) 201-223 (Sep 1998), 1A1227
Investigation into propeller skew using a "RANS" code - Part I: Model scale, Int Shipbuild Prog **45**(443) 237-251 (Sep 1998), 1A1228
Investigation into propeller skew using a "RANS" code - Part 2: Scale effects, Int Shipbuild Prog **45**(443) 253-265 (Sep 1998), 1A1229
Wave loads on rudders, Ship Tech Res **45**(3) 118-125 (Jul 1998), 3A262
Limits of potential theory in rudder flow predictions, Ship Tech Res **45**(3) 141-155 (Jul 1998), 3A1039
Panel method for predicting ship-propeller interaction in potential flow, Ship Tech Res **45**(3) 134-140 (Jul 1998), 3A1176
Design aspects of solar-powered ships, Ship Tech Res **45**(3) 126-129 (Jul 1998), 3A1499
Identification of ship coupled heave-pitch motions using neural networks, Ocean Eng **26**(5) 381-400 (May 1999), 4T1237
Hydrodynamic characteristics of a lunate shape oscillating propulsor, Ocean Eng **26**(6) 519-529 (Jun 1999), 4T1238
Design study for outboard propeller with spoiler, Ocean Eng **26**(8) 727-737 (Aug 1999), 7A1114
Hybrid modeling, simulation and torque control of a marine propulsion system, J Syst Control Eng **213**(I1) 1-10 (1999), 9A1258
Cavitation investigations in two conventional tunnels and in the hydrodynamics and cavitation tunnel HYKAT, Ship Tech Res **46**(1) 43-56 (Feb 1999), 10A1249
Interaction of ducted propulsor and stern for an axisymmetric hull, Int Shipbuild Prog **46**(445) 61-89 (Apr 1999), 10A1250
Measurements of propeller tip vortices around near wake zone, Ship Tech Res **46**(2) 93-110 (May 1999), 11A1290

376N. Fluid dynamics effects

Effect of motion phases on wave load encountered by oceangoing ships, J Dalian Univ Tech **38**(4) 469-474 (Jul 1998), 1A1230
Low-frequency responses of nonlinearly moored vessels in random waves: Development of a two-scale perturbation method, Appl Ocean Res **20**(4) 225-236 (Aug 1998), 2A1215
Inverse problem of ship-induced internal waves, Ocean Eng **26**(2) 99-110 (Feb 1999), 3A250
Interaction of background ocean air bubbles with a surface ship, Int J Numer Methods Fluids **28**(4) 571-600 (Sep 1998), 3A1101
Solid-free-surface juncture boundary layer and wake, Exp Fluids **25**(4) 283-297 (Sep 1998), 3A1133
Full scale decay test of a tanker: Field data and theoretical analysis, Ocean Eng **26**(2) 125-145 (Feb 1999), 3T1177
Prediction of cavitation erosion: An energy approach, J Fluids Eng **120**(4) 719-727 (Dec 1998), 3A1193
Experimental study on transient and periodic phenomena of cavitating flow for a hydrofoil at small angle of attack (Chinese), J Shanghai Jiaotong Univ **32**(8) 86-92 (Aug 1998), 4A1004
Multi-term coupling method for the analysis of wave-induced ship motion in nonlinear random waves (Japanese), Proc JSCE **600**(II-44) 105-117 (Aug 1998), 4A1234
Hydrodynamic characteristics of a lunate shape oscillating propulsor, Ocean Eng **26**(6) 519-529 (Jun 1999), 4T1238
Study on high speed round bilge boat with anti-wave hydrofoil close to water surface (Chinese), J Huazhong Univ Sci Tech **26**(7) 45-48 (Jul 1998), 4A1239
Algebraic discrete nonlocal absorbing boundary condition for the ship wave resistance problem, J Comput Phys **146**(2) 570-602 (Nov 1998), 4T1240
Numerical method for calculating the effects of inlet flow on hydrodynamic characteristics of a hydrofoil-strut-pod configuration, J Hydrodyn **10**(3) 39-44 (1998), 4T1241
Potential based panel method for 2D hydrofoils, Ocean Eng **26**(4) 343-361 (Apr 1999), 4A1242
Third-order hydrodynamic loads on an oscillating vertical cylinder in water, J Offshore Mech Arctic Eng **121**(1) 16-21 (Feb 1999), 5A928
Free-surface supercritical splashless flows past a 2D symmetrical rectinlinear body, Eur J Mech B **17**(6) 811-822 (Nov-Dec 1998), 5T1106
Staggered-grid panel method for hydrofoils with fully nonlinear free-surface effect, Int Shipbuild Prog **45**(444) 313-329 (Dec 1998), 5A1107
Fully coupled Navier-Stokes solver for calculation of turbulent incompressible free surface flow past a ship hull, Int J Numer Methods Fluids **29**(2) 125-142 (Jan 1999), 7A1106
Design study for outboard propeller with spoiler, Ocean Eng **26**(8) 727-737 (Aug 1999), 7A1114
Time domain solution of unsteady flow around a ship, J Hydrodyn **10**(4) 7-15 (1998), 7T1115
Fluid force and flutter stability of a pitching hydrofoil in subcavitation region, JSME Int J Ser B **41**(3) 575-582 (Aug 1998), 8T1221
Unsteady model of sail and flow interaction, J Fluids Struct **13**(1) 37-59 (Jan 1999), 8A1222
Polydisperse model for bubbly two-phase flow around a surface ship, Int J Multiphase Flow **25**(2) 257-305 (Mar 1999), 9A1259
Interaction effects of local steady flow on wave diffraction-radiation at low forward speed, Int J Offshore Polar Eng **8**(2) 102-109 (Jun 1998), 10A292
Irregular frequencies appearing in wave diffraction-radiation solutions, Int J Offshore Polar Eng **8**(2) 110-114 (Jun 1998), 10A293
Hydrodynamic forces on the advancing slender body with speed effects - II: Wave exciting forces, Int Shipbuild Prog **46**(445) 29-41 (Apr 1999), 10A1251
Hydrodynamic interaction between a fixed and a floating cylinder, Int J Offshore Polar Eng **8**(1) 46-50 (Mar 1998), 10A1252
Investigation of the vortex-wave wake behind a hydrofoil, Ship Tech Res **46**(1) 8-13 (Feb 1999), 10A1253
Numerical simulation of Reynolds number effect on effective wake field and hydrodynamic performance of propeller behind ship, J Hydrodyn **11**(1) 79-87 (1999), 10T1254
Practical method to predict fluctuating pressure induced by a propeller operating in wake field and its validation, J Hydrodyn **11**(1) 88-96 (1999), 10T1255
Impact of stiffness on the response of a multimodule mobile offshore base, Int J Offshore Polar Eng **9**(2) 126-133 (Jun 1999), 12A169

376Y. Computational techniques

Application of optimization shells to design problems, Ship Tech Res **45**(3) 88-95 (Jul 1998), 3A878
Interaction of background ocean air bubbles with a surface ship, Int J Numer Methods Fluids **28**(4) 571-600 (Sep 1998), 3A1101
Algebraic discrete nonlocal absorbing boundary condition for the ship wave resistance problem, J Comput Phys **146**(2) 570-602 (Nov 1998), 4T1240
Numerical method for calculating the effects of inlet flow on hydrodynamic characteristics of a hydrofoil-strut-pod configuration, J Hydrodyn **10**(3) 39-44 (1998), 4T1241
Potential based panel method for 2D hydrofoils, Ocean Eng **26**(4) 343-361 (Apr 1999), 4A1242
Numerical computations and integrations of the wave resistance Green's function, Theor Comput Fluid Dyn **12**(3) 179-194 (Nov 1998), 5A1108
Time domain solution of unsteady flow around a ship, J Hydrodyn **10**(4) 7-15 (1998), 7T1115
Quasi-3D Navier-Stokes model for a rotating airfoil, J Comput Phys **150**(2) 518-548 (Apr 1999), 9A1260
Numerical simulation of the unsteady flow past a hydrofoil, Ship Tech Res **46**(1) 14-30 (Feb 1999), 10A1127
Chimera RANS simulation of a berthing DDG-51 ship in translational and rotational motions, Int J Offshore Polar Eng **8**(3) 182-191 (Sep 1998), 10A1256
Numerical prediction of viscous propeller flows, Ship Tech Res **46**(1) 35-42 (Feb 1999), 10A1257
Solving hydrodynamic problems for twin-hull body by phase transfer method, Int Shipbuild Prog **46**(445) 43-60 (Apr 1999), 10A1258
Time-domain method computations of twin- and mono-hull ships in head seas, Int Shipbuild Prog **46**(445) 91-123 (Apr 1999), 10A1259
Estimation of spectra of truncated transition functions, Ship Tech Res **46**(2) 111-127 (May 1999), 11A1291
Generic super Green functions, Ship Tech Res **46**(2) 81-92 (May 1999), 11A1292
Role of applied mathematics in hydrodynamics for ships and floating offshore structures, Ship Tech Res **46**(2) 59-80 (May 1999), 11A1293

376Z. Experimental techniques

Experimental determination of the hydrodynamic coefficients of an underwater manipulator, J Robotic Syst **16**(6) 329-338 (Jun 1999), 11A1287
Application of fully nonlinear numerical wave tank to the study of chaotic roll motions, Int J Offshore Polar Eng **9**(2) 90-96 (Jun 1999), 12A1237
Polyvinylidene fluoride film sensors for measurement of unsteady pressures on aerodynamic surfaces - Part II: Application to a small-scale marine propeller in spatially distorted mean flow, Exp Fluids **27**(1) 85-91 (Jun 1999), 12A1238

378. AERODYNAMICS

378B. Wings and airfoils

Mathematical Methods of Airfoil Design (Akademie-Verlag, Berlin, Germany, 1997) 1R23
Kutta condition for sharp edge flows, Mech Res Commun **25**(4) 415-420 (Jul-Aug 1998), 1T1091
Appraisal of numerical methods in predicting the aerodynamics of forward-swept wings, J Aircraft **35**(4) 561-568 (Jul-Aug 1998), 1A1231
Contravariant velocity based implicit multilevel method for simulating the whole process of incompressible flow transition around Joukowsky airfoils, Appl Mech Eng **3**(1) 111-161 (1998), 1A1232
Effect of miss-distance on the airfoil-vortex interaction: Numerical study, Arch Mech **50**(1) 127-138 (1998), 1A1233
Empirical model of transport and decay of aircraft wake vortices, J Aircraft **35**(4) 649-653 (Jul-Aug 1998), 1T1234
High-performance airfoil with moving surface boundary-layer control, J Aircraft **35**(4) 544-553 (Jul-Aug 1998), 1A1235
Low-Reynolds-number effects on delta-wing aerodynamics, J Aircraft **35**(4) 653-656 (Jul-Aug 1998), 1T1236
Surface vorticity modeling of flow around airfoils, Comput Mech **21**(6) 526-532 (Jun 1998), 1A1237
Inverse Design and Optimization Methods (AIAA, Reston, VA, 1997) 2N26
Effect of panelling, application of the Kutta condition and the way of positioning the control points on the numerical solution of panel methods: Part II, Comput Assisted Mech Eng Sci **5**(1) 9-19 (1998), 2A108
Unsteady vortex structure over delta-wing subject to transient along-core blowing, AIAA J **36**(9) 1658-1664 (Sep 1998), 2A1187
Aerodynamic shape design for rotor airfoils via Genetic Algorithm, J Am Helicopter Soc **43**(3) 263-270 (Jul 1998), 2A1216
Use and characteristics of vortical flows near a generating aerodynamic surface: A perspective, Prog Aerospace Sci **34**(3-4) 167-217 (Mar-Apr 1998), 2A1217
Use of piezoelectric actuators for airfoil separation control, AIAA J **36**(8) 1535-1537 (Aug 1998), 2T1218
Introduction to Aeronautics: A Design Perspective (AIAA, Reston, VA, 1997) 3R23
Effective selection of piezoceramic actuators for an experimental flexible wing, J Guidance Control Dyn **21**(5) 704-709 (Sep-Oct 1998), 3T411
Navier-Stokes analysis of vortex flow over a cropped delta wing, Acta Mech **131**(1-2) 69-87 (1998), 3A1178
Effects of zero-mass "synthetic" jets on the aerodynamics of the NACA-0012 airfoil, J Am Helicopter Soc **43**(4) 303-311 (Oct 1998), 4A1243
Review and extension of computational methods for noncircular cross-sectional weapons, J Spacecraft Rockets **35**(5) 585-597 (Sep-Oct 1998), 4A1244
Secondary correction formula for 2D lift coefficient measured in a wind tunnel, J Aircraft **35**(5) 712-719 (Sep-Oct 1998), 4A1245
Numerical representation of pitching and nonpitching airfoils undergoing linear acceleration, J Aircraft **35**(5) 761-768 (Sep-Oct 1998), 4A1259
Wing-tip vortex calculations using a high-accuracy scheme, J Aircraft **35**(5) 728-738 (Sep-Oct 1998), 4A1267
Eigenmode analysis of unsteady flows about airfoils, J Comput Phys **147**(2) 568-593 (Dec 1998), 5A1109
Flow behind castellated blunt-trailing-edge aerofoils at supersonic speeds, J Fluid Mech **375** 85-111 (Nov 1998), 5A1110
Simplified modeling of the aero-hydrodynamics of "ekranoplanes", Ship Tech Res **45**(4) 172-179 (Oct 1998), 5A1111
Numerical simulation of dynamic stall around an airfoil in Darrieus motion, J Solar Energy Eng **121**(1) 69-76 (Feb 1999), 6A1189
Optimization of conical wings in hypersonic flow, Theor Comput Fluid Dyn **12**(4) 219-232 (Dec 1998), 6A1214
Aerodynamic optimization using analytic descriptions of the design space, J Aircraft **35**(6) 882-890 (Nov-Dec 1998), 6T1294
Application of the vortex breakdown phenomenon in the attenuation of trailing vortices, Aeronaut J **102**(1018) 439-444 (Oct-Dec 1998), 6A1295
Direct measurement of delta-wing vortex circulation, AIAA J **36**(12) 2195-2203 (Dec 1998), 6A1296
Effects of asymmetric leading-edge flap deflection on delta wings in roll, J Aircraft **35**(6) 968-971 (Nov-Dec 1998), 6T1297
Experimental investigation of a loaded rotor blade's interaction with a single vortex, Aeronaut J **102**(1018) 451-457 (Oct-Dec 1998), 6A1298
Inverse method for transonic wing design, Int J Numer Methods Eng **44**(2) 249-264 (Jan 1999), 6A1299

Lift enhancement of a wing-strake configuration using pneumatic blowing, J Aircraft **35**(6) 984-985 (Nov-Dec 1998), 6T1300
Navier-Stokes analysis of the flow about a flap edge, J Aircraft **35**(6) 833-838 (Nov-Dec 1998), 6A1301
Parallel blade-vortex interaction, J Fluids Struct **12**(7) 801-838 (Oct 1998), 6A1302
Small-scale vortical structures in crossflow plane of a rolling delta wing, AIAA J **36**(12) 2276-2278 (Dec 1998), 6T1303
Buffeting flows over delta wings, AIAA J **37**(1) 58-65 (Jan 1999), 7A1116
Reynolds-averaged Navier-Stokes computations of a flap-side-edge flowfield, AIAA J **37**(1) 14-22 (Jan 1999), 7A1117
Rivulet formation in surface-water flow on an airfoil in rain, AIAA J **37**(1) 45-49 (Jan 1999), 7A1118
Theoretical model for multiply connected wings, European J Appl Math **9**(6) 607-634 (Dec 1998), 7A1119
Unsteady flow around helicopter rotor blade sections in forward flight, Aeronaut J **103**(1019) 35-44 (Jan 1999), 7A1134
Flutter of an airfoil with a cubic restoring force, J Fluids Struct **13**(1) 75-101 (Jan 1999), 8A278
Long-time impulse response of compressible swept-wing boundary layers, J Fluid Mech **379** 333-350 (Jan 1999), 8A1109
Choice of the system of geometric parameters of an optimized wing, J Appl Math Mech **62**(5) 763-770 (1998), 8A1223
Controlling the secondary flow in a turbine cascade by 3D airfoil design and endwall contouring, J Turbomachinery **121**(2) 191-199 (Apr 1999), 8A1224
Dynamics of corotating vortex pairs in the wakes of flapped airfoils, J Fluid Mech **382** 155-193 (Mar 1999), 9A1261
Effects of Reynolds number and free-stream turbulence on aerodynamic performance of a cantilever wing, J Chinese Soc Mech Eng **20**(1) 35-44 (Feb 1999), 9A1262
Gurney flap experiments on airfoil and wings, J Aircraft **36**(2) 484-486 (Mar-Apr 1999), 9T1263
High-lift optimization design using neural networks on a multi-element airfoil, J Fluids Eng **121**(2) 434-440 (Jun 1999), 9A1264
Lifting-line theory for arbitrarily shaped wings, J Aircraft **36**(2) 340-348 (Mar-Apr 1999), 9A1265
Method for accelerating the destruction of aircraft wing vortices, J Aircraft **36**(2) 398-404 (Mar-Apr 1999), 9A1266
Nonlinear aeroelastic analysis of airfoils: Bifurcation and chaos, Prog Aerospace Sci **35**(3) 205-334 (Apr 1999), 9A1267
Wing jet blowing on the Subsonic High Alpha Research Concept fighter configuration, J Aircraft **36**(2) 413-420 (Mar-Apr 1999), 9A1268
A History of Aerodynamics: And its Impact on Flying Machines (Cambridge UP, New York, 1999) 10N25
Recent Development of Aerodynamic Design Methodologies: Inverse Design and Optimization (Verlag Vieweg, Wiesbaden, 1999) 10N27
Simulation of tiltrotor fountain flow field effects using a finite volume technique: An aero-acoustic study, J Am Helicopter Soc **44**(2) 150-153 (Apr 1999), 10T334
Turbulence modeling for supercritical flows including examples with passive shock control, Aeronaut J **103**(1020) 113-125 (Feb 1999), 10A1228
Turbulence structure resulting from a vortex-wing-tip encounter, J Am Helicopter Soc **44**(2) 141-149 (Apr 1999), 10A1229
Effect of miss-distance on the airfoil-vortex interaction experiment, Arch Mech **50**(4) 691-701 (1998), 10A1260
Experimental study of the idealized vortex system of a novel rotor blade tip, Aeronaut J **102**(1017) 385-392 (Aug-Sep 1998), 10A1261
Prediction of tunnel wall upwash for delta wings including vortex breakdown effects, Aeronaut J **103**(1021) 139-142 (Mar 1999), 11A1099
Boundary elements and optimization for linearized compressible flows around immersed airfoils, Eng Anal Boundary Elements **23**(7) 591-596 (Jul 1999), 11A1161
Airfoil and wing design through hybrid optimization strategies, AIAA J **37**(5) 634-641 (May 1999), 11A1294
Behavior of wake vortices near the ground over a large range of Reynolds numbers, Aerospace Sci Tech **3**(2) 71-81 (Feb 1999), 12A1239
Bifurcation of vortex dipole in the viscous incompressible flow around an airfoil, Arch Mech **50**(6) 931-951 (1998), 12A1240

378C. Lifting bodies

Flowfield around ogive-elliptic-tip cylinder at high angle of attack, AIAA J **36**(10) 1778-1787 (Oct 1998), 3A1179
Effects of zero-mass "synthetic" jets on the aerodynamics of the NACA-0012 airfoil, J Am Helicopter Soc **43**(4) 303-311 (Oct 1998), 4A1243
Navier-Stokes predictions of the individual components of the pitch-damping sum, J Spacecraft Rockets **35**(5) 598-605 (Sep-Oct 1998), 4A1246
Numerical simulation of a supersonic base-bleed projectile with improved turbulence modeling, J Spacecraft Rockets **35**(5) 606-611 (Sep-Oct 1998), 4A1247
Physics of resonance in a supersonic forward-facing cavity, J Spacecraft Rockets **35**(5) 626-632 (Sep-Oct 1998), 4A1248
Rotors with trailing edge flaps: Analysis and comparison with experimental data, J Am Helicopter Soc **43**(4) 319-332 (Oct 1998), 4A1249
Three-dimensional flow computation around a projectile overtaking a preceding shock wave, J Spacecraft Rockets **35**(5) 619-625 (Sep-Oct 1998), 4A1250
Aerothermodynamic environment for a generic missile, J Spacecraft Rockets **36**(1) 44-52 (Jan-Feb 1999), 7A1120
Computation of roll moment for projectile with wraparound fins using Euler equation, J Spacecraft Rockets **36**(1) 53-58 (Jan-Feb 1999), 7A1121
Computational simulation improvements of supersonic high-angle-of-attack missile flows, J Spacecraft Rockets **36**(1) 59-66 (Jan-Feb 1999), 7A1122
Aerodynamics of V/STOL Flight (Dover, Mineola NY, 1999) 8N22
Inverse equations, Phys Fluids **11**(3) 513-520 (Mar 1999), 8T994
Lifting surface in subsonic unsteady regime, Meccanica **34**(1) 1-27 (Feb 1999), 9A1269
Stall resistance features of lifting-body airplane configurations, J Aircraft **36**(2) 471-474 (Mar-Apr 1999), 9T1270
Performance measurement and wake characteristics of a model rotor in axial flight, J Am Helicopter Soc **44**(2) 101-108 (Apr 1999), 10A1262

378D. Wing body combinations

Comparing theory and experiment of aerodynamic forces and moments on T-tail configurations, J Brazilian Soc Mech Sci **20**(2) 233-243 (Jun 1998), 1A1238
Computational study of subsonic flow over a delta canard-wing-body configuration, J Aircraft **35**(4) 554-560 (Jul-Aug 1998), 1A1239
Introduction to Aeronautics: A Design Perspective (AIAA, Reston, VA, 1997) 3R23
Effect of fuselage geometry on delta-wing vortex breakdown, J Aircraft **35**(6) 898-904 (Nov-Dec 1998), 6A1304
Recent Development of Aerodynamic Design Methodologies: Inverse Design and Optimization (Verlag Vieweg, Wiesbaden, 1999) 10N27
Aerodynamic analysis of a helicopter in steady maneuvering flight using a free-vortex rotor wake model, J Am Helicopter Soc **44**(2) 109-120 (Apr 1999), 10A1263

378G. Lift, drag, stall

Measurement and analysis of the flowfields induced by suction perforations, AIAA J **36**(9) 1553-1561 (Sep 1998), 2A1157
Unsteady stall control using dynamically deforming airfoils, AIAA J **36**(10) 1792-1800 (Oct 1998), 3A1180
Two and three dimensional numerical fluid flow analysis for aerodynamic characteristics of rectangular cylinders with side ratio 4 (Japanese), Proc JSCE **598**(I-44) 401-411 (Jul 1998), 3A1187
Airfoil wave-drag prediction using Euler solutions of transonic flows, J Aircraft **35**(5) 748-753 (Sep-Oct 1998), 4A1251
Improvement in vehicle aerodynamic drag and rolling resistance determination from coast-down tests, Proc Inst Mech Eng D **212**(D5) 369-380 (1998), 4A1252
Qualitative examination of dynamic stall from flight test data, J Am Helicopter Soc **43**(4) 279-295 (Oct 1998), 4A1253
Reconstruction of the 1994 Pittsburgh airplane accident using a computer simulation, J Aircraft **35**(5) 665-670 (Sep-Oct 1998), 4A1258
Numerical investigation of the effect on airfoil lift-drag ratio of locally enhanced surface roughness, Wind Eng **22**(3) 143-148 (1998), 5A1043
Base drag reduction caused by riblets on a GAW(2) airfoil, J Aircraft **35**(6) 988-991 (Nov-Dec 1998), 6T1305
Correlation for the estimation of afterbody drag with hot jet exhaust, J Aircraft **35**(6) 981-984 (Nov-Dec 1998), 6T1306
Identifying aerial bomb's aerodynamic drag coefficient curve using optimal dynamic fitting method, J Aircraft **35**(6) 971-975 (Nov-Dec 1998), 6T1307
Flowfield measurements over an airfoil during natural low-frequency oscillations near stall, AIAA J **37**(1) 130-132 (Jan 1999), 7T1123
Numerical study of dynamic stall on several airfoil sections, AIAA J **37**(1) 128-130 (Jan 1999), 7T1124
Observed drag crisis on a sphere in flowing He I and He II, Phys Fluids **11**(4) 751-753 (Apr 1999), 8A1026
Wake integration for 3D flowfield computations: Theoretical development, J Aircraft **36**(2) 357-365 (Mar-Apr 1999), 9A1271
Wake integration for 3D flowfield computations: Applications, J Aircraft **36**(2) 366-373 (Mar-Apr 1999), 9A1272

378I. Performance

Aircraft time constant and flying "on the step", J Aircraft **35**(5) 821-823 (Sep-Oct 1998), 4T1254
Assessing aircraft susceptibility to nonlinear aircraft-pilot coupling and pilot-induced oscillations, J Guidance Control Dyn **21**(6) 957-964 (Nov-Dec 1998), 5A1571
Optimization of conical wings in hypersonic flow, Theor Comput Fluid Dyn **12**(4) 219-232 (Dec 1998), 6A1214
Flutter boundary prediction using physical models and experimental data, J Guidance Control Dyn **22**(1) 168-171 (Jan-Feb 1999), 7T1125
Resolution of tail buffet phenomena for AH-64D™ Longbow Apache™, J Am Helicopter Soc **44**(1) 16-25 (Jan 1999), 7T1126
Twin rotor hover performance, J Am Helicopter Soc **44**(1) 34-37 (Jan 1999), 7A1127
Effects of Reynolds number and free-stream turbulence on aerodynamic performance of a cantilever wing, J Chinese Soc Mech Eng **20**(1) 35-44 (Feb 1999), 9A1262
High-lift optimization design using neural networks on a multi-element airfoil, J Fluids Eng **121**(2) 434-440 (Jun 1999), 9A1264
Analysis of the Hessian for aerodynamic optimization: Inviscid flow, Comput Fluids **28**(7) 853-877 (Sep 1999), 12A1241
Method for optimizing sail design, Sports Eng **2**(1) 35-48 (Feb 1999), 12A1242
Relationship between flow characteristics and aerodynamic drag of van-body truck, J Hydrodyn **11**(2) 71-76 (1999), 12T1245

378J. Flight path and trajectories

Dynamics of axisymmetric rockets in free flight, J Dyn Syst Meas Control **120**(3) 410-414 (Sep 1998), 1A411
Analysis of aircraft agility on maximum performance maneuvers, J Aircraft **35**(4) 529-535 (Jul-Aug 1998), 1A1240
Touch points in optimal ascent trajectories with first-order state inequality constraints, J Guidance Control Dyn **21**(4) 603-610 (Jul-Aug 1998), 1T1241
Dynamics of Flight: The Equations (Wiley, UK, 1998) 5R32
Time-optimal turn to a heading: An improved analytic solution, J Guidance Control Dyn **21**(6) 940-947 (Nov-Dec 1998), 5A378
Altitude loss in a split-"S" maneuver, J Aircraft **35**(6) 986-988 (Nov-Dec 1998), 6T1308
Approximate performance of periodic hypersonic cruise trajectories for global reach, J Aircraft **35**(6) 857-867 (Nov-Dec 1998), 6A1309
Autonomous maneuver tracking for self-piloted vehicles, J Guidance Control Dyn **22**(1) 58-67 (Jan-Feb 1999), 7A364
Design of automatic landing systems using mixed H_2-H_∞ control, J Guidance Control Dyn **22**(1) 103-114 (Jan-Feb 1999), 7A378
Launch vehicle trajectories with a dynamic pressure constraint, J Spacecraft Rockets **35**(6) 765-773 (Nov-Dec 1998), 7A1128
Minimum heat input optimal skip entry into Venus atmosphere, J Spacecraft Rockets **35**(6) 774-777 (Nov-Dec 1998), 7A1129
Optimization and coordination of multiagent systems using principled negotiation, J Guidance Control Dyn **22**(1) 43-50 (Jan-Feb 1999), 7T1130
Sensitivity of trajectory prediction in air traffic management, J Guidance Control Dyn **22**(2) 219-228 (Mar-Apr 1999), 8A416
Optimal strategies for free-flight air traffic conflict resolution, J Guidance Control Dyn **22**(2) 202-211 (Mar-Apr 1999), 8T1225
Suboptimal damped periodic cruise trajectories for hypersonic flight, J Aircraft **36**(2) 405-412 (Mar-Apr 1999), 9T1273
Performance measurement and wake characteristics of a model rotor in axial flight, J Am Helicopter Soc **44**(2) 101-108 (Apr 1999), 10A1262

378K. Stability and control

Using bifurcation methods to aid nonlinear dynamic inversion control law design, J Guidance Control Dyn **21**(4) 632-638 (Jul-Aug 1998), 1A407
Decoupling control design with applications to flight, J Guidance Control Dyn **21**(4) 647-655 (Jul-Aug 1998), 1A424
Command limiting in reconfigurable flight control, J Guidance Control Dyn **21**(4) 639-646 (Jul-Aug 1998), 1A1242
Multiple attractors in inertia-coupled velocity-vector roll maneuvers of airplanes, J Aircraft **35**(4) 659-661 (Jul-Aug 1998), 1T1243
Neal-Smith criteria-based H_∞-modeling technique for assessing pilot rating, J Guidance Control Dyn **21**(4) 656-661 (Jul-Aug 1998), 1T1244
Computational Flight Dynamics (AIAA, Reston, VA, 1998) 2R19
Magnus effects on stability of wraparound-finned missiles, J Spacecraft Rockets **35**(4) 467-472 (Jul-Aug 1998), 2A1219
Nonlinear flight dynamics at high angles-of-attack, Aeronaut J **102**(1016) 337-343 (Jun-Jul 1998), 2A1220
Stability analysis for inverse simulation of aircraft, Aeronaut J **102**(1016) 345-351 (Jun-Jul 1998), 2A1221
Introduction to Aeronautics: A Design Perspective (AIAA, Reston, VA, 1997) 3R23
Stability and control of a structurally nonlinear aeroelastic system, J Guidance Control Dyn **21**(5) 718-725 (Sep-Oct 1998), 3A422
Bifurcation analysis of eigenstructure assignment control in a simple nonlinear aircraft model, J Guidance Control Dyn **21**(5) 792-798 (Sep-Oct 1998), 3T1181
Jet deflection angles in military, civil and RPV thrust vectoring aircraft, Int J Turbo Jet Engines **15**(2) 91-94 (1998), 3A1182
Pilot-induced oscillations involving multiple nonlinearities, J Guidance Control Dyn **21**(5) 786-791 (Sep-Oct 1998), 3A1183
Control-surface reversal in the transonic regime, J Aircraft **35**(5) 688-694 (Sep-Oct 1998), 4A273
Frequency effects on dynamic stability derivatives obtained from small-amplitude oscillatory testing, J Aircraft **35**(5) 776-783 (Sep-Oct 1998), 4A1255
Optimal inverse analysis of vectored thrust maneuvering, Int J Turbo Jet Engines **15**(3) 165-174 (1998), 4A1256
Perturbation solution of dynamic stability derivatives over pointed bodies of revolution, J Aircraft **35**(5) 825-828 (Sep-Oct 1998), 4T1257
Reconstruction of the 1994 Pittsburgh airplane accident using a computer simulation, J Aircraft **35**(5) 665-670 (Sep-Oct 1998), 4A1258
Performance, Stability, Dynamics, and Control of Airplanes (AIAA, Reston, VA, 1998) 5R34
Control of the F-14 aircraft lateral-directional axis during powered approach, J Guidance Control Dyn **21**(6) 899-908 (Nov-Dec 1998), 5T363
Finite time stability approach to proportional navigation systems analysis, J Guidance Control Dyn **21**(6) 853-861 (Nov-Dec 1998), 5T366
High-g barrel roll maneuvers against proportional navigation from optimal control viewpoint, J Guidance Control Dyn **21**(6) 876-881 (Nov-Dec 1998), 5T369
Near-optimal entry trajectories for reusable launch vehicles, J Guidance Control Dyn **21**(6) 983-990 (Nov-Dec 1998), 5A371
Nonlinear H_∞ robust guidance law for homing missiles, J Guidance Control Dyn **21**(6) 882-890 (Nov-Dec 1998), 5A372
Terminal guidance algorithm for ramjet-powered missiles, J Guidance Control Dyn **21**(6) 862-866 (Nov-Dec 1998), 5T377
Time-optimal turn to a heading: An improved analytic solution, J Guidance Control Dyn **21**(6) 940-947 (Nov-Dec 1998), 5A378
Applied active control for a nonlinear aeroelastic structure, J Guidance Control Dyn **21**(6) 838-845 (Nov-Dec 1998), 5A380
Output feedback variable structure adaptive control of an aeroelastic system, J Guidance Control Dyn **21**(6) 830-837 (Nov-Dec 1998), 5A384
Distributed flight control and propulsion control implementation issues and lessons learned, J Eng Gas Turbines Power **121**(1) 96-101 (Jan 1999), 5A1112
Wavelet-processed flight data for robust aeroservoelastic stability margins, J Guidance Control Dyn **21**(6) 823-829 (Nov-Dec 1998), 5T1113
Assessing aircraft susceptibility to nonlinear aircraft-pilot coupling and pilot-induced oscillations, J Guidance Control Dyn **21**(6) 957-964 (Nov-Dec 1998), 5A1571
Estimation of aircraft lateral-directional parameters using neural networks, J Aircraft **35**(6) 876-881 (Nov-Dec 1998), 6A1310
Airship Technology (Cambridge UP, UK, 1999) 7N16
Full envelope missile autopilot design using gain scheduled robust control, J Guidance Control Dyn **22**(1) 115-122 (Jan-Feb 1999), 7T368
Design of automatic landing systems using mixed H_2-H_∞ control, J Guidance Control Dyn **22**(1) 103-114 (Jan-Feb 1999), 7A378
Synchronized formation rotation and attitude control of multiple free-flying spacecraft, J Guidance Control Dyn **22**(1) 28-35 (Jan-Feb 1999), 7A389
Uncertainty modeling for multivariable-control robustness analysis of elastic high-speed vehicles, J Guidance Control Dyn **22**(1) 87-95 (Jan-Feb 1999), 7T390

Effects of Mach number on supersonic wraparound fin aerodynamics, J Spacecraft Rockets **35**(6) 742-748 (Nov-Dec 1998), 7A991
Gain-scheduled control using fuzzy logic and its application to flight control, J Guidance Control Dyn **22**(1) 175-178 (Jan-Feb 1999), 7T1131
Study of roll stability derivatives, J Spacecraft Rockets **36**(1) 150-151 (Jan-Feb 1999), 7T1132
Windshear recovery using fuzzy logic guidance and control, J Guidance Control Dyn **22**(1) 178-180 (Jan-Feb 1999), 7T1138
Aerodynamics of V/STOL Flight (Dover, Mineola NY, 1999) 8N22
Does the phugoid frequency depend on speed?, J Guidance Control Dyn **22**(2) 372-373 (Mar-Apr 1999), 8T78
Robust integrated flight and propulsion controller for the Harrier aircraft, J Guidance Control Dyn **22**(2) 286-290 (Mar-Apr 1999), 8A429
Forward flight effects on counterflow thrust vector control of a supersonic jet, AIAA J **37**(2) 279-281 (Feb 1999), 8T1226
Helicopter blade response and aeromechanical stability with a magnetorheological fluid based lag damper, J Intelligent Mat Syst Struct **9**(4) 272-282 (Apr 1998), 8A1227
Numerical investigations of the aerodynamics and the aeroelastic stability of oscillating annular wings, J Fluids Struct **13**(2) 209-224 (Feb 1999), 9A301
Wing jet blowing on the Subsonic High Alpha Research Concept fighter configuration, J Aircraft **36**(2) 413-420 (Mar-Apr 1999), 9A1268
Application of active separation control to a small unmanned air vehicle, J Aircraft **36**(2) 474-477 (Mar-Apr 1999), 9T1274
Phugoid approximation revisited, J Aircraft **36**(2) 465-467 (Mar-Apr 1999), 9T1275
Pneumatic lift and control surface technology for high speed civil transports, J Aircraft **36**(2) 332-339 (Mar-Apr 1999), 9A1276
A History of Aerodynamics: And its Impact on Flying Machines (Cambridge UP, New York, 1999) 10N25
Adaptive feedback linearization for the control of a typical wing section with structural nonlinearity, Nonlinear Dyn **18**(3) 289-301 (Mar 1999), 10T447
Asymptotic analysis of the classical aircraft stability equations, Aeronaut J **103**(1020) 95-103 (Feb 1999), 10A1264
Stability derivatives cast in the frame of subsonic unsteady aerodynamics, Eng Trans **46**(1) 45-72 (1998), 10A1265
Two-timescale-integration method for inverse simulation, J Guidance Control Dyn **22**(3) 395-401 (May-Jun 1999), 11A388
Robust adaptive control of store release event for wings with external stores, J Guidance Control Dyn **22**(3) 408-414 (May-Jun 1999), 11A391
Aircraft flight control systems, Aeronaut J **103**(1021) 159-165 (Mar 1999), 11A1295
Flight control law design, Aerospace Sci Tech **3**(3) 111-189 (Apr 1999), 12T1243
Neural networks as a tool for the assessment of human pilot behavior in wind shear, Aerospace Sci Tech **3**(1) 39-48 (Jan 1999), 12A1244

378L. Unsteady effects

Implicit unstructured Navier-Stokes simulation of leading edge separation over a pitching airfoil, Appl Numer Math **27**(3) 269-308 (Jul 1998), 1A1245
Measurement of unsteady boundary layer developed on an oscillating airfoil using multiple hot-film sensors, Exp Fluids **25**(2) 108-117 (Jul 1998), 2A1154
Unsteady stall control using dynamically deforming airfoils, AIAA J **36**(10) 1792-1800 (Oct 1998), 3A1180
Continuity of lifting surface theory in subsonic and supersonic flow, AIAA J **36**(10) 1788-1791 (Oct 1998), 3A1184
Development of a 3D free shear layer, J Fluid Mech **369** 49-89 (Aug 1998), 3A1185
Numerical representation of pitching and nonpitching airfoils undergoing linear acceleration, J Aircraft **35**(5) 761-768 (Sep-Oct 1998), 4A1259
Parallel interaction of incident vortex array with oscillating airfoil, J Aircraft **35**(5) 739-747 (Sep-Oct 1998), 4A1260
Proportional control of asymmetric forebody vortices, AIAA J **36**(11) 2087-2093 (Nov 1998), 5A1068
Free-stream turbulence effect on gurney-type flaps, Wind Eng **22**(3) 149-158 (1998), 5T1114
Nonlinear separated inviscid-viscous analysis of oscillating cascade aerodynamics using an inverse integral method, J Turbomachinery **121**(1) 134-144 (Jan 1999), 5A1115
Small-scale vortical structures in crossflow plane of a rolling delta wing, AIAA J **36**(12) 2276-2278 (Dec 1998), 6T1303
Convergence of the subsonic doublet lattice method, J Aircraft **35**(6) 977-979 (Nov-Dec 1998), 6T1311
General approach for computing unsteady 3D thin lifting and/or propulsive systems derived from a complete theory, Int J Numer Methods Fluids **29**(1) 75-95 (Jan 1999), 6A1312
Rapid prediction of wing rock for slender delta-wing configurations, J Aircraft **35**(6) 979-981 (Nov-Dec 1998), 6T1313
Buffeting flows over delta wings, AIAA J **37**(1) 58-65 (Jan 1999), 7A1116
Unsteady aerodynamics: Retrospect and prospect, Aeronaut J **103**(1019) 1-18 (Jan 1999), 7A1133
Unsteady flow around helicopter rotor blade sections in forward flight, Aeronaut J **103**(1019) 35-44 (Jan 1999), 7A1134
Flowfield simulation about a 65° delta wing during constant roll-rate motions, J Aircraft **36**(2) 486-488 (Mar-Apr 1999), 9T1277
Vortex characteristics of pitching double-delta wings, J Aircraft **36**(2) 349-356 (Mar-Apr 1999), 9A1278
Single finite states modeling of aerodynamic forces related to structural motions and gusts, AIAA J **37**(5) 604-612 (May 1999), 11A297
General Bernoulli equation for rotational flow in rotor, Int J Turbo Jet Engines **16**(1) 17-18 (1999), 11A1160
Parallel computation of turbine blade clocking, Int J Turbo Jet Engines **16**(1) 49-60 (1999), 11A1296

378M. Aerodynamic loads

Comparing theory and experiment of aerodynamic forces and moments on T-tail configurations, J Brazilian Soc Mech Sci **20**(2) 233-243 (Jun 1998), 1A1238
Application of artificial neural networks to load identification, Comput Struct **69**(1) 63-78 (Oct 1998), 2A1222
Flutter analysis of bridge deck using unsteady aerodynamic forces based on general oscillation (Japanese), Proc JSCE **598**(I-44) 311-322 (Jul 1998), 3A909
Study of mode coupling in flutter and buffeting of the Akashi-Kaikyo bridge, Proc JSCE **598**(I-44) 21-36 (Jul 1998), 3A911
Numerical investigation of the effect on airfoil lift-drag ratio of locally enhanced surface roughness, Wind Eng **22**(3) 143-148 (1998), 5A1043
Synergistic aircraft design using CFD air loads, Comput Methods Appl Mech Eng **166**(3-4) 247-259 (Nov 1998), 6A1314
Identification of bearingless main rotor dynamic characteristics from frequency-response wind-tunnel test data, J Am Helicopter Soc **44**(1) 63-76 (Jan 1999), 7T1135
Influence of vortex models on blade-vortex interaction load and noise predictions, J Am Helicopter Soc **44**(1) 26-33 (Jan 1999), 7A1136
Wavelet analysis of pilot workload in helicopter low-level flying tasks, Aeronaut J **103**(1019) 55-63 (Jan 1999), 7A1137
Windshear recovery using fuzzy logic guidance and control, J Guidance Control Dyn **22**(1) 178-180 (Jan-Feb 1999), 7T1138
Aerodynamic analysis of a helicopter in steady maneuvering flight using a free-vortex rotor wake model, J Am Helicopter Soc **44**(2) 109-120 (Apr 1999), 10A1263
X-34 vehicle aerodynamic characteristics, J Spacecraft Rockets **36**(2) 229-239 (Mar-Apr 1999), 10A1266
Consideration on aerodynamic stability of bridge structures due to isolating device at movable supports (Japanese), Proc JSCE **616**(VI-42) 125-130 (Mar 1999), 11A934
Finite-state aerodynamic modeling for gust load alleviation of wing-tail configurations, Aeronaut J **103**(1021) 147-158 (Mar 1999), 11A1297
Relationship between flow characteristics and aerodynamic drag of van-body truck, J Hydrodyn **11**(2) 71-76 (1999), 12T1245

378O. Flight tests and instrumentation

Measurement of autogyro control forces, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 57-60 (1998), 1A1246
Development and flight testing of a parameter identification algorithm for reconfigurable control, J Guidance Control Dyn **21**(6) 948-956 (Nov-Dec 1998), 5A320
Comparison of boundary-layer transition predictions using flight test data, J Aircraft **35**(6) 891-897 (Nov-Dec 1998), 6A1315
Flowfield and acoustic measurements from a model tiltrotor in hover, J Aircraft **35**(6) 921-929 (Nov-Dec 1998), 6A1316
Characterizing the supercooled large droplet environment with corresponding turboprop aircraft response, J Aircraft **35**(6) 912-920 (Nov-Dec 1998), 6A1320
Two-dimensional airfoil performance degradation because of simulated freezing drizzle, J Aircraft **35**(6) 905-911 (Nov-Dec 1998), 6A1321

378P. Hypervelocity launchers and instrumentation

Unsteady effects of dissociative cooling under high-stagnation-point heat loads, J Spacecraft Rockets **35**(5) 633-638 (Sep-Oct 1998), 4A1261
Self-similar hypervelocity shock interactions with oblique contact discontinuities, Shock Waves **8**(5) 299-310 (Oct 1998), 5T1116
Numerical and experimental simulation of hypervelocity flow around the HYFLEX vehicle forebody, Shock Waves **9**(1) 57-67 (Feb 1999), 10A1267

378Y. Computational techniques

Appraisal of numerical methods in predicting the aerodynamics of forward-swept wings, J Aircraft **35**(4) 561-568 (Jul-Aug 1998), 1A1231
Computational study of subsonic flow over a delta canard-wing-body configuration, J Aircraft **35**(4) 554-560 (Jul-Aug 1998), 1A1239
Experiences with automatic differentiation applied to a volume grid generation code, J Aircraft **35**(4) 569-573 (Jul-Aug 1998), 1A1247
Computational Flight Dynamics (AIAA, Reston, VA, 1998) 2R19
Absolute instabilities of a finite length vortex street with external axial velocities, Comput Assisted Mech Eng Sci **5**(2) 161-172 (1998), 2A115
Artificial dissipation schemes for viscous airfoil computations, AIAA J **36**(9) 1732-1734 (Sep 1998), 2T1223
Improved method for parameter selection in FE model updating, Aeronaut J **102**(1016) 321-329 (Jun-Jul 1998), 2A1224
Large-eddy simulations and lidar measurements of vortex-pair breakup in aircraft wakes, AIAA J **36**(8) 1439-1445 (Aug 1998), 2A1225
Mesh adaption and automatic differentiation for optimal shape design, Int J Comput Fluid Dyn **10**(3) 199-211 (1998), 2A1226
New 3D inverse method for high-speed vehicle design, J Spacecraft Rockets **35**(4) 473-479 (Jul-Aug 1998), 2A1227
Uniqueness of the bounded flow solution in aerodynamics, Comput Mech **22**(1) 12-18 (Jul 1998), 2A1228
Collocation method for the generalized airfoil equation for an airfoil with a flap, SIAM J Numer Anal **35**(5) 1725-1739 (Oct 1998), 3A1186
Two and three dimensional numerical fluid flow analysis for aerodynamic characteristics of rectangular cylinders with side ratio 4 (Japanese), Proc JSCE **598**(I-44) 401-411 (Jul 1998), 3A1187
Review and extension of computational methods for noncircular cross-sectional weapons, J Spacecraft Rockets **35**(5) 585-597 (Sep-Oct 1998), 4A1244
Navier-Stokes predictions of the individual components of the pitch-damping sum, J Spacecraft Rockets **35**(5) 598-605 (Sep-Oct 1998), 4A1246
Numerical simulation of a supersonic base-bleed projectile with improved turbulence modeling, J Spacecraft Rockets **35**(5) 606-611 (Sep-Oct 1998), 4A1247
Three-dimensional flow computation around a projectile overtaking a preceding shock wave, J Spacecraft Rockets **35**(5) 619-625 (Sep-Oct 1998), 4A1250
Airfoil wave-drag prediction using Euler solutions of transonic flows, J Aircraft **35**(5) 748-753 (Sep-Oct 1998), 4A1251
Numerical representation of pitching and nonpitching airfoils undergoing linear acceleration, J Aircraft **35**(5) 761-768 (Sep-Oct 1998), 4A1259
Euler calculations of multibladed rotors in hover by DLR and ONERA methods and comparison with helishape tests, J Am Helicopter Soc **43**(4) 296-302 (Oct 1998), 4A1262
Experimental and computational simulation of in-flight icing phenomena, Prog Aerospace Sci **34**(5-6) 257-345 (Jul-Aug 1998), 4T1263
Inverse optimization of transonic wing design using Multiobjective Genetic Algorithms, Inverse Prob Eng **6**(4) 317-330 (1998), 4A1264
Reduced order aerodynamic models based upon inflow eigenmodes, J Am Helicopter Soc **43**(4) 342-351 (Oct 1998), 4A1265
Transition closure model for predicting transition onset, J Aircraft **35**(5) 769-775 (Sep-Oct 1998), 4A1266
Wing-tip vortex calculations using a high-accuracy scheme, J Aircraft **35**(5) 728-738 (Sep-Oct 1998), 4A1267
Algorithms for attitude determination using the global positioning system, J Guidance Control Dyn **21**(6) 846-852 (Nov-Dec 1998), 5T361
Experience in integrating CFD to the technology of testing models in wind tunnels, Prog Aerospace Sci **34**(7-8) 391-422 (Nov-Dec 1998), 5A972
Tetrahedral unstructured Navier-Stokes method for turbulent flows, AIAA J **36**(11) 1975-1982 (Nov 1998), 5A995
Eigenmode analysis of unsteady flows about airfoils, J Comput Phys **147**(2) 568-593 (Dec 1998), 5A1109
Self-similar hypervelocity shock interactions with oblique contact discontinuities, Shock Waves **8**(5) 299-310 (Oct 1998), 5T1116
Efficient Newton-Krylov solver for aerodynamic computations, AIAA J **36**(11) 1991-1997 (Nov 1998), 5A1117
Improved treatment of external boundary conditions for 3D flow computations, AIAA J **36**(11) 1998-2004 (Nov 1998), 5A1118
Parallel processing scheme for the Navier-Stokes equations - Part 1: Scheme development, AIAA J **36**(11) 2013-2019 (Nov 1998), 5A1119
Parallel processing scheme for the Navier-Stokes equations - Part 2: Parallel implementation, AIAA J **36**(11) 2020-2026 (Nov 1998), 5A1120
Navier-Stokes analysis of the flow about a flap edge, J Aircraft **35**(6) 833-838 (Nov-Dec 1998), 6A1301
Convergence of the subsonic doublet lattice method, J Aircraft **35**(6) 977-979 (Nov-Dec 1998), 6T1311
General approach for computing unsteady 3D thin lifting and/or propulsive systems derived from a complete theory, Int J Numer Methods Fluids **29**(1) 75-95 (Jan 1999), 6A1312
Arbitrary accuracy integration scheme for the subsonic doublet lattice method, J Aircraft **35**(6) 975-977 (Nov-Dec 1998), 6T1317
Computational study into the flow field developed around a cascade of NACA 0012 airfoils, Comput Methods Appl Mech Eng **167**(1-2) 17-32 (Dec 1998), 6A1318
Development of an unstructured mesh method, J Aircraft **35**(6) 966-968 (Nov-Dec 1998), 6T1319
Reynolds-averaged Navier-Stokes computations of a flap-side-edge flowfield, AIAA J **37**(1) 14-22 (Jan 1999), 7A1117
Computation of roll moment for projectile with wrap-around fins using Euler equation, J Spacecraft Rockets **36**(1) 53-58 (Jan-Feb 1999), 7A1121
Flutter boundary prediction using physical models and experimental data, J Guidance Control Dyn **22**(1) 168-171 (Jan-Feb 1999), 7T1125
Admitting the inadmissible: Adjoint formulation for incomplete cost functionals in aerodynamic optimization, AIAA J **37**(1) 37-44 (Jan 1999), 7A1139
Comprehensive comparisons of rotormap and blade element method, J Am Helicopter Soc **44**(1) 42-49 (Jan 1999), 7A1140
Computational prediction of pitch damping for supersonic blunt cones, J Spacecraft Rockets **35**(6) 849-851 (Nov-Dec 1998), 7T1141
Constrained multipoint aerodynamic shape optimization using an adjoint formulation and parallel computers - Part 1, J Aircraft **36**(1) 51-60 (Jan-Feb 1999), 7A1142
Constrained multipoint aerodynamic shape optimization using an adjoint formulation and parallel computers - Part 2, J Aircraft **36**(1) 61-74 (Jan-Feb 1999), 7A1143
Overview of sensitivity analysis and shape optimization for complex aerodynamic configurations, J Aircraft **36**(1) 87-96 (Jan-Feb 1999), 7A1144
Re-engineering the design process through computation, J Aircraft **36**(1) 36-50 (Jan-Feb 1999), 7A1145
Airfoil design on unstructured grids for turbulent flows, AIAA J **37**(2) 185-191 (Feb 1999), 8A1228
Papers dedicated to Jerry South of NASA Langley Research Center on the occasion of his retirement, Comput Fluids **28**(3-4) 389-739 (May-Jun 1999), 9A465
Computer visualization of vortex wake systems, AIAA J **37**(4) 511-512 (Apr 1999), 9T1137
Flow computations around delta wings using unstructured hybrid grids, J Aircraft **36**(2) 374-379 (Mar-Apr 1999), 9A1149
Stability analysis and aerodynamic design optimization of Euler equations using variational methods, Int J Numer Methods Eng **44**(11) 1709-1726 (Apr 1999), 9A1279
Computational fluid dynamics for turbomachinery design, Proc Inst Mech Eng C **213**(C2) 107-124 (1999), 9A1296
Exploitation of 3D flow in turbomachinery design, Proc Inst Mech Eng C **213**(C2) 125-137 (1999), 9A1298
Constrained, multipoint shape optimization for complex 3D configurations, Aeronaut J **102**(1017) 365-376 (Aug-Sep 1998), 10A1147
Inviscid and viscous simulations of spoiler performance, Aeronaut J **102**(1017) 399-405 (Aug-Sep 1998), 10A1163
Numerical and experimental simulation of hypervelocity flow around the HYFLEX vehicle forebody, Shock Waves **9**(1) 57-67 (Feb 1999), 10A1267
Rotorcraft aeroacoustics computations with overset-grid CFD method, J Am Helicopter Soc **44**(2) 132-140 (Apr 1999), 10A1268
Parallel implementation of an upwind Euler solver for hovering rotor flows, Aeronaut J **103**(1021) 129-138 (Mar 1999), 11A1164
Vortex method for separated flow around an airfoil with a detached spoiler, Comput Mech **23**(3) 271-278 (Apr 1999), 11A1298
Incompressible flow past oscillatory wings of low aspect ratio by the integral equations method, Int J

Numer Methods Eng **45**(9) 1187-1201 (Jul 1999), 12A250
Analysis of the Hessian for aerodynamic optimization: Inviscid flow, Comput Fluids **28**(7) 853-877 (Sep 1999), 12A1241
Polyvinylidene fluoride film sensors for measurement of unsteady pressures on aerodynamic surfaces - Part I: Design, fabrication, calibration and demonstration, Exp Fluids **27**(1) 79-84 (Jun 1999), 12A1246

378Z. Experimental techniques

High-performance airfoil with moving surface boundary-layer control, J Aircraft **35**(4) 544-553 (Jul-Aug 1998), 1A1235
Wind-tunnel aerodynamics in rotary tests of combat aircraft models, J Aircraft **35**(4) 521-528 (Jul-Aug 1998), 1A1248
Use of piezoelectric actuators for airfoil separation control, AIAA J **36**(8) 1535-1537 (Aug 1998), 2T1218
Large-eddy simulations and lidar measurements of vortex-pair breakup in aircraft wakes, AIAA J **36**(8) 1439-1445 (Aug 1998), 2A1225
Immediate and near wake flow patterns behind slotted disks, AIAA J **36**(9) 1626-1634 (Sep 1998), 2A1229
Review of the role of some small high-speed wind tunnels in aeronautical research, Prog Aerospace Sci **34**(3-4) 107-166 (Mar-Apr 1998), 2A1230
Direct full surface skin friction measurement using nematic liquid crystal techniques, J Turbomachinery **120**(4) 847-853 (Oct 1998), 2A1284
Secondary correction formula for 2D lift coefficient measured in a wind tunnel, J Aircraft **35**(5) 712-719 (Sep-Oct 1998), 4A1245
Physics of resonance in a supersonic forward-facing cavity, J Spacecraft Rockets **35**(5) 626-632 (Sep-Oct 1998), 4A1248
Parallel interaction of incident vortex array with oscillating airfoil, J Aircraft **35**(5) 739-747 (Sep-Oct 1998), 4A1260
Experimental and computational simulation of in-flight icing phenomena, Prog Aerospace Sci **34**(5-6) 257-345 (Jul-Aug 1998), 4T1263
Proportional control of asymmetric forebody vortices, AIAA J **36**(11) 2087-2093 (Nov 1998), 5A1068
Air data sensing from surface pressure measurements using a neural network method, AIAA J **36**(11) 2094-2101 (Nov 1998), 5A1121
Direct measurement of delta-wing vortex circulation, AIAA J **36**(12) 2195-2203 (Dec 1998), 6A1296
Parallel blade-vortex interaction, J Fluids Struct **12**(7) 801-838 (Oct 1998), 6A1302
Characterizing the supercooled large droplet environment with corresponding turboprop aircraft response, J Aircraft **35**(6) 912-920 (Nov-Dec 1998), 6A1320
Two-dimensional airfoil performance degradation because of simulated freezing drizzle, J Aircraft **35**(6) 905-911 (Nov-Dec 1998), 6A1321
Evaluating aerodynamic characteristics of wind-tunnel models produced by rapid prototyping methods, J Spacecraft Rockets **35**(6) 755-759 (Nov-Dec 1998), 7A1146
Microfabricated shear stress sensors - Part 1: Design and fabrication, AIAA J **37**(1) 66-72 (Jan 1999), 7A1163
Microfabricated shear stress sensors - Part 2: Testing and calibration, AIAA J **37**(1) 73-78 (Jan 1999), 7A1164
Thin film sensor for the measurement of unsteady pressure, Aeronaut J **102**(1017) 393-398 (Aug-Sep 1998), 10A1269
Two and three component velocity measurements in a wind tunnel using PIV, Aeronaut J **103**(1021) 167-173 (Mar 1999), 11A1149
Laser doppler anemometer for in-flight velocity measurements on airplane wings, AIAA J **37**(6) 680-687 (Jun 1999), 11A1334
Planar doppler velocimetry: Three-component velocimetry in supersonic jets, AIAA J **37**(6) 700-707 (Jun 1999), 11A1335
Velocity measurements by modulated filtered Rayleigh scattering using diode lasers, AIAA J **37**(6) 695-699 (Jun 1999), 11A1336
Miniature multihole pressure probes and their neural-network-based calibration, AIAA J **37**(6) 666-674 (Jun 1999), 11A1337
Seven-hole pressure probe calibration method utilizing look-up error tables, AIAA J **37**(6) 675-679 (Jun 1999), 11A1338
Ozone tagging velocimetry using narrowband excimer lasers, AIAA J **37**(6) 708-714 (Jun 1999), 11A1342
Dynamics of suspension-slider-air-bearing systems: Experimental study, IEEE/ASME Trans Mechatronics **3**(3) 210-217 (Sep 1998), 12A467
Experimental research on stability and transition in high-speed wakes - Part 1: Research on the transition position in supersonic and hypersonic wakes, and the effects of temperature and other factors, Eng Trans **46**(3-4) 243-250 (1998), 12A1247
Experimental research on stability and transition in high-speed wakes - Part 2: Influence of parameters of supersonic free flow on development of disturbances in a wake, Eng Trans **46**(3-4) 251-260 (1998), 12T1248
Experimental research on stability and transition in high-speed wakes - Part 3: Influence of thickness of a flat plate and length of its stem on stability of a supersonic wake, Eng Trans **46**(3-4) 261-269 (1998), 12T1249

380. MACHINERY FLUID DYNAMICS

380B. Fundamentals

Exact actuator disk solutions for non-uniform heavy loading and slipstream contraction, J Fluid Mech **365** 235-267 (Jun 1998), 1A1254
Unbalanced hydraulic forces caused by geometrical manufacturing deviations of centrifugal impellers, J Fluids Eng **120**(3) 531-537 (Sep 1998), 1A1258
Pump research and development: Past, present, and future: An American perspective, J Fluids Eng **121**(2) 237-247 (Jun 1999), 9A1280
Pump research and development: Past, present, and future, J Fluids Eng **121**(2) 248-253 (Jun 1999), 9A1281
Pump research and development: Past, present, and future: Japanese perspective, J Fluids Eng **121**(2) 254-258 (Jun 1999), 9A1282
Theoretical modeling of central air-jet pump performance for pneumatic transportation of bulk solids, J Fluids Eng **121**(2) 365-372 (Jun 1999), 9A1292

380C. Unsteady flow and systems stability

Steady and unsteady flow field at pump and turbine exits of a torque converter, J Fluids Eng **120**(3) 538-548 (Sep 1998), 1A1253
Analysis of the flow in the compressor NASA 37: Influence of turbulence models (French), Rev Francaise Mec **0**(2) 143-149 (Jun 1998), 1A1255
Investigation and control of backflow ahead of a shrouded inducer, J Fluids Eng **120**(3) 549-555 (Sep 1998), 1A1264
Development and validation of Navier-Stokes procedure for turbomachinery unsteady flow, AIAA J **37**(5) 557-563 (May 1999), 11A1299
Analysis of the transpiration cooling of a thin porous plate in a hot laminar convective flow, Eur J Mech B **18**(2) 245-260 (Mar-Apr 1999), 11A1355

380D. Turbines (gas and vapors)

Linearized approach of fluid-structure vibrations in turbomachinery (French), Rev Francaise Mec **0**(2) 81-88 (Jun 1998), 1A292
Methodology of noise reduction of an air conditioning system (French), Rev Francaise Mec **0**(2) 107-114 (Jun 1998), 1A324
Comparative throughflow analysis of axial flow turbines, Proc Inst Mech Eng A **212**(A2) 141-145 (1998), 1A1249
Experimental determination of unsteady flow forces on turbine blades by hydraulic analogy (French), Rev Francaise Mec **0**(2) 115-120 (Jun 1998), 1T1250
Numerical prediction of the flow-induced thermal loading of a 250 MW steam turbine HP casing (French), Rev Francaise Mec **0**(2) 89-98 (Jun 1998), 1A1251
Simulation on the performance of a small supercharging turbine (French), Rev Francaise Mec **0**(2) 99-106 (Jun 1998), 1A1252
Steady and unsteady flow field at pump and turbine exits of a torque converter, J Fluids Eng **120**(3) 538-548 (Sep 1998), 1A1253
Thermodynamic optimization of a gas turbine power plant with pressure drop irreversibilities, J Energy Resources Tech **120**(3) 233-240 (Sep 1998), 1A1280
Three-dimensional blade boundary layer and endwall flow development in the nozzle passage of a single stage turbine, J Fluids Eng **120**(3) 570-579 (Sep 1998), 1A1425
Secondary and Tip-Clearance Flows in Axial Turbines (AIAA, Reston, VA, 1997) 2N28
Experiments in active control of stall on an aeroengine gas turbine, J Turbomachinery **120**(4) 637-647 (Oct 1998), 2A1231
Total-to-static efficiency and horizontal-axis wind turbine design, Wind Eng **22**(2) 113-116 (1998), 3T1188
Unsteady Aerodynamics and Aeroelasticity of Turbgomachines (Kluwer, Netherlands, 1998) 4N29
Prediction of the steady and non-steady flow performance of a highly loaded mixed flow turbine, Proc Inst Mech Eng A **212**(A3) 173-184 (1998), 4A1268
Effect on end wall fences on losses in turbine blade cascades, J Eng Appl Sci **45**(4) 567-583 (Aug 1998), 5A1122
Efficient approach for analysis of unsteady viscous flows in turbomachines, AIAA J **36**(11) 2005- 2012 (Nov 1998), 5A1141
Automatic genetic optimization approach to 2D blade profile design for steam turbines, J Turbomachinery **121**(1) 11-17 (Jan 1999), 5A1145
Computation of adjacent blade-row effects in a 1.5-stage axial flow turbine, J Turbomachinery **121**(1) 1-10 (Jan 1999), 5A1146
Influence of weak grids on wind turbines and economics of wind power plants in India, Wind Eng **22**(3) 171-181 (1998), 5T1530
Inviscid rotordynamic damping forces due to nonaxisymmetric tip clearance in turbines, AIAA J **36**(12) 2163-2169 (Dec 1998), 6A203
Design issues and performance of a chemically recuperated aeroderivative gas turbine, Proc Inst Mech Eng A **212**(A5) 315-329 (1998), 6A1322
Three dimensional laser anemometry in a rotating cooling channel (French), Rev Francaise Mec **0**(4) 229-236 (Dec 1998), 7A1147
Various speed flow simulation through 3D rotating machinery stages, Comput Model Simul in Eng **3**(4) 259-267 (Nov 1998), 7A1148
Experimental study of fluid motion in air gap using scaled water model: Winding efficiency of rotor surface shape of air-cooled generators, JSME Int J Ser B **41**(3) 703-708 (Aug 1998), 8T1229
Improvement of performance in steam turbine by developing 3D designed blades, JSME Int J Ser B **41**(4) 1035-1041 (Nov 1998), 8T1230
Off-design performance of a single-stage transonic turbine, J Turbomachinery **121**(2) 177-183 (Apr 1999), 8A1231
Resonance characteristics of turbine blades with compound periodic structure, JSME Int J Ser B **41**(3) 727-733 (Aug 1998), 8T1245
Inviscid flow field around the blade of wind turbines using a panel modelization (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 439-459 (1998), 9A1146
Design of low-reaction steam turbine blades, Proc Inst Mech Eng C **213**(C2) 157-174 (1999), 9A1283
Generic aspects enabling 2D wind tunnel data correlation to wind turbine field tests, Wind Eng **22**(4) 197-205 (1998), 9T1284
New multiobjective simulated annealing algorithm and its application to turbine cascades' design, Chinese J Mech Eng **12**(1) 50-55 (Mar 1999), 10A1270
Steam turbine diagnostic (French), Rev Francaise Mec **0**(1) 39-42 (Mar 1999), 10A1271
Probabilistic model of creep life as a part of the procedure for the component technical condition assessment (Polish), Arch Energetics **27**(3-4) 3-18 (1998), 10A1473
Testing and modeling gas turbines using multisine signals and frequency-domain techniques, J Eng Gas Turbines Power **121**(3) 451-457 (Jul 1999), 10A1476
Survey of hot streak experiments and simulations, Int J Turbo Jet Engines **16**(1) 1-15 (1999), 11A1300
Simulation of vortex shedding in a turbine stage, J Turbomachinery **121**(3) 428-435 (Jul 1999), 11A1317
Dual-laser probe measurement of blade-tip clearance, J Turbomachinery **121**(3) 481-485 (Jul 1999), 11A1323
Effect of unsteady wake with trailing edge coolant ejection on film cooling performance for a gas turbine blade, J Turbomachinery **121**(3) 448-455 (Jul 1999), 11A1370
Blade Row Interference Effects in Axial Turbomachinery Stages (von Karman Inst, Rhode-St-Genese, Belgium, 1998) 12N26
Aerodynamic loss prediction of axial flow turbine blade rows with coolant injection, Proc Inst Mech Eng A **213**(A2) 93-101 (1999), 12A1250
Coupling of wind turbines to centrifugal pumps, Wind Eng **22**(5) 223-234 (1998), 12T1251
Direct model-reference adaptive control of variable speed horizontal-axis wind turbines, Wind Eng **22**(5) 209-218 (1998), 12T1252
Performance analysis of various gas turbine cycles using steam cooling (Chinese), J Shanghai Jiaotong Univ **33**(3) 335-338 (Mar 1999), 12A1253

380E. Turbines (hydraulic)

Investigation of the performance of a cross-flow turbine, Int J Energy Res **22**(11) 953-964 (Sep 1998), 3A1189
Basic study of low head water power utilization by using Darrieus-type turbine, Memoirs Fac Eng Kyushu Univ **58**(2) 39-53 (Jun 1998), 4A1269
Relations between the operating condition and pressure fluctuation in draft tube of Francis turbine (Chinese), J Huazhong Univ Sci Tech **26**(11) 88-91 (Nov 1998), 5A1123
Vibrational research of big Rancis Turbine for small load condition (Chinese), J Huazhong Univ Sci Tech **26**(10) 73-75 (Oct 1998), 6A206
Dynamic analysis of hydraulic turbine runner and blade systems - I: Mechanics model and formulation (Chinese), J Tsinghua Univ Sci Tech **38**(8) 68-71 (Aug 1998), 6A1323
Dynamic analysis of hydraulic turbine runner and blade system - II: Analysis of examples (Chinese), J Tsinghua Univ Sci Tech **38**(8) 72-75 (Aug 1998), 6A1324
Fluid Machinery: Performance, Analysis, and Design (CRC Press, Boca Raton FL, 1999) 8R20
Experimental study of fluid motion in air gap using scaled water model: Winding efficiency of rotor surface shape of air-cooled generators, JSME Int J Ser B **41**(3) 703-708 (Aug 1998), 8T1229
Applications of artificial neutral networks to the generation of wave equations from hydraulic data, J Hydraul Res **37**(1) 81-97 (1999), 8T1232
Resonance characteristics of turbine blades with compound periodic structure, JSME Int J Ser B **41**(3) 727-733 (Aug 1998), 8T1245
Experimental investigations of steady flow in a tube with circumferential wall cavity, J Fluids Eng **121**(2) 405-409 (Jun 1999), 9A1285
Numerical prediction of silt abrasive erosion in hydraulic turbine, J Hydrodyn **11**(1) 103-110 (1999), 10T1272
Stator wake effects on the total pressure distribution downstream of a transonic turbine rotor, Trans Inst Fluid-Flow Machinery **0**(104) 3-18 (1998), 10A1273
Unsteady blade loads caused by stator-rotor interaction in an axial turbine stage, Trans Inst Fluid-Flow Machinery **0**(104) 45-58 (1998), 10A1274

380F. Propellers in liquids

Exact actuator disk solutions for non-uniform heavy loading and slipstream contraction, J Fluid Mech **365** 235-267 (Jun 1998), 1A1254
Pitch correction method of propeller caused by change in blade thickness and geometry (Chinese), J Dalian Univ Tech **38**(5) 567-570 (Sep 1998), 4A1270

380G. Cavitation effects

Cavitation nuclei population and event rates, J Fluids Eng **120**(4) 728-737 (Dec 1998), 3A1190
Centrifugal pump performance drop due to leading edge cavitation: Numerical predictions compared with model tests, J Fluids Eng **120**(4) 705-711 (Dec 1998), 3A1191
Experimental and numerical investigation on cavitating flows in diesel injection systems, Meccanica **33**(4) 407-425 (Aug 1998), 3A1192
Prediction of cavitation erosion: An energy approach, J Fluids Eng **120**(4) 719-727 (Dec 1998), 3A1193
Three-dimensional analysis of rotordynamic forces on whirling and cavitating helical inducers, J Fluids Eng **120**(4) 698-704 (Dec 1998), 3A1194
New calibration method for dynamically loaded transducers and its application to cavitation impact measurement, J Fluids Eng **120**(4) 712-718 (Dec 1998), 3A1208
Characteristics method for the formulation and computation of a free boundary cavitation problem, J Comput Appl Math **98**(2) 191-212 (Oct 1998), 5A1124
Study of tip vortex cavitation inception using Navier-Stokes computation and bubble dynamics model, J Fluids Eng **121**(1) 198-204 (Mar 1999), 7A949
Design study for outboard propeller with spoiler, Ocean Eng **26**(8) 727-737 (Aug 1999), 7A1114
Cavermod device: Force measurements, J Fluids Eng **121**(2) 312-317 (Jun 1999), 9A1286
Cavermod device: Hydrodynamic aspects and erosion tests, J Fluids Eng **121**(2) 305-311 (Jun 1999), 9A1287
Propeller sheet cavitation predictions using a panel method, J Fluids Eng **121**(2) 282-288 (Jun 1999), 9A1288
Numerical model of cavitating propeller inside of a tunnel, J Fluids Eng **121**(2) 297-304 (Jun 1999), 9A1294

380H. Centrifugal fans, pumps, compressors

Analysis of the flow in the compressor NASA 37: Influence of turbulence models (French), Rev Francaise Mec **0**(2) 143-149 (Jun 1998), 1A1255
Optimum incidence angle in centrifugal pumps and radial inflow turbines, Proc Inst Mech Eng A **212**(A2) 97-107 (1998), 1A1256
Prediction of performance characteristics of a centrifugal slurry pump handling clear liquid, Indian J Eng Mat Sci **5**(3) 91-96 (Jun 1998), 1A1257
Unbalanced hydraulic forces caused by geometrical manufacturing deviations of centrifugal impellers, J Fluids Eng **120**(3) 531-537 (Sep 1998), 1A1258
Design criteria for suppression of secondary flows in centrifugal and mixed flow impellers, J Turbomachinery **120**(4) 723-735 (Oct 1998), 2A1232

Loosely coupled unsteady flow simulation of a single stage compressor, Int J Comput Fluid Dyn **10**(1) 73-89 (1998), 2A1233
Sound generation by a centrifugal pump at blade passing frequency, J Turbomachinery **120**(4) 736-743 (Oct 1998), 2A1234
Viscous throughflow modeling of axial compressor bladerows using a tangential blade force hypothesis, J Turbomachinery **120**(4) 662-670 (Oct 1998), 2A1235
Centrifugal pump performance drop due to leading edge cavitation: Numerical predictions compared with model tests, J Fluids Eng **120**(4) 705-711 (Dec 1998), 3A1191
Computational and experimental evaluation of the performance of a centrifugal fan volute, Proc Inst Mech Eng A **212**(A4) 235-246 (1998), 4A1177
Experimental research of active control for instability phenomenon in cavitating centrifugal pump (Chinese), J Shanghai Jiaotong Univ **32**(7) 10-13 (Jul 1998), 4A1271
Incipient stall mean flow and subsequent rotating stall in a mixed flow centrifugal compressor, Int J Turbo Jet Engines **15**(3) 203-221 (1998), 4A1272
Mechanism and prediction of inlet reverse flow onset in centrifugal pump impellers (Chinese), J Shanghai Jiaotong Univ **32**(7) 5-9 (Jul 1998), 4A1273
Performance and pressure distribution changes in a centrifugal pump under two-phase flow, Proc Inst Mech Eng A **212**(A3) 165-171 (1998), 4A1274
Performance improvement of a mixed-flow fan through the application of guide fences in the vaneless diffuser, Proc Inst Mech Eng A **212**(A4) 217-224 (1998), 4A1275
Simulation of the subsonic flow in a high-speed centrifugal compressor impeller by the pressure-based method, Proc Inst Mech Eng A **212**(A4) 269-287 (1998), 4A1276
LDV measurements of a mixed-flow impeller at design and near stall, Int J Turbo Jet Engines **15**(3) 187-201 (1998), 4A1283
Axial thrust of high-pressure centrifugal compressor (Chinese), J Xi'an Jiaotong Univ **32**(11) 63-67 (1998), 5A1125
Experimental study of matching between centrifugal compressor impeller and diffuser, J Turbomachinery **121**(1) 113-118 (Jan 1999), 5A1126
Numerical analysis of the inviscid incompressible flow in 2D radial-flow pump impellers, Eng Anal Boundary Elements **22**(4) 271-279 (Dec 1998), 5A1127
Potential field interactions in a low-speed centrifugal compressor, J Propulsion Power **14**(6) 925-933 (Nov-Dec 1998), 5A1128
Shock loss model for supersonic compressor cascades, J Turbomachinery **121**(1) 28-35 (Jan 1999), 5A1129
Stall inception and the prospects for active control in four high-speed compressors, J Turbomachinery **121**(1) 18-27 (Jan 1999), 5A1130
Study of acoustic resonance in a low-speed multistage compressor, J Turbomachinery **121**(1) 36-43 (Jan 1999), 5A1131
Friction loss at outer side of impeller surface for centrifugal compressor (Chinese), J Xi'an Jiaotong Univ **32**(12) 20-23 (1998), 6A1325
New concept for squirrel-cage fan inlet, Proc Inst Mech Eng A **212**(A5) 343-349 (1998), 6A1333
Recent research in rotating stall chaos, fractals and attractors (French), Rev Francaise Mec **0**(4) 277-287 (Dec 1998), 7A1149
Theoretical and experimental study of pressure fluctuations in the passage of an axial compression stage: Application to the fan noise (French), Rev Francaise Mec **0**(4) 255-264 (Dec 1998), 7A1150
Development of an aerodynamical and mechanical optimization methodology of compressor blades (French), Rev Francaise Mec **0**(4) 247-253 (Dec 1998), 7A1154
Fluid Machinery: Performance, Analysis, and Design (CRC Press, Boca Raton FL, 1999) 8R20
Anaysis and Design of Energy Systems, Third Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N30
Development of a centrifugal compressor with a variable geometry split-ring pipe diffuser, J Turbomachinery **121**(2) 294-304 (Apr 1999), 8A1233
Energy input of a centrifugal state into the attached piping system during mild surge, J Eng Gas Turbines Power **121**(2) 325-334 (Apr 1999), 8A1234
Improved neural network for predicting performance of centrifugal fans (Chinese), J Xi'an Jiaotong Univ **33**(3) 43-47 (1999), 8A1235
Multistage centrifugal compressor surge analysis - Part I: Experimental Investigation, J Turbomachinery **121**(2) 305-311 (Apr 1999), 8A1236
Multistage centrifugal compressor surge analysis - Part II: Numerical simulation and dynamic control parameters evaluation, J Turbomachinery **121**(2) 312-320 (Apr 1999), 8A1237
Fluid flow in a rotating low-specific-speed centrifugal impeller passage, Fluid Dyn Res **24**(5) 275-292 (May 1999), 8A1243
Centrifugal and Rotary Pumps: Fundamentals with Applications (CRC Press, Boca Raton FL, 1999) 9R32
Pump research and development: Past, present, and future: An American perspective, J Fluids Eng **121**(2) 237-247 (Jun 1999), 9A1280
Pump research and development: Past, present, and future, J Fluids Eng **121**(2) 248-253 (Jun 1999), 9A1281
Pump research and development: Past, present, and future: Japanese perspective, J Fluids Eng **121**(2) 254-258 (Jun 1999), 9A1282
Centrifugal compressor design, Proc Inst Mech Eng C **213**(C2) 139-155 (1999), 9A1289
Experimental study on the aeroacoustic behavior of a forward-curved blades centrifugal fan, J Fluids Eng **121**(2) 276-281 (Jun 1999), 9A1290
Rotordynamic forces on an open-type centrifugal compressor impeller in whirling motion, J Fluids Eng **121**(2) 259-265 (Jun 1999), 9A1291
Mathematical analysis of compressor unit operation with stepwise capacity control, Trans Inst Fluid-Flow Machinery **0**(104) 145-158 (1998), 10A1275
Mathematical analysis of compressor unit operation with stepwise capacity control, Trans Inst Fluid-Flow Machinery **0**(104) 145-158 (1998), 10T1276
Mathematical analysis of compressor unit operation with stepwise capacity control, Trans Inst Fluid-Flow Machinery **0**(104) 145-158 (1998), 10T1277
Performance prediction of centrifugal pumps, J Eng Appl Sci **45**(6) 989-1008 (Dec 1998), 10A1278
Comparison of measurement data at the impeller exit of a centrifugal compressor measured with both pneumatic and fast-response probes, J Turbomachinery **121**(3) 609-618 (Jul 1999), 11A1301
Dynamic analysis of centrifugal compressor impellers by application of rotating mode substructuring (Chinese), J Xi'an Jiaotong Univ **33**(5) 33-38 (1999), 11A1302
Experimental study of the flow in the suction pipe of a centrifugal pump at partial flow rates in unsteady conditions, J Pressure Vessel Tech **121**(3) 291-295 (Aug 1999), 11A1303
Improved model for the design and analysis of centrifugal compressor volutes, J Turbomachinery **121**(3) 619-625 (Jul 1999), 11A1304
Numerical simulation of impeller-volute interaction in centrifugal compressors, J Turbomachinery **121**(3) 603-608 (Jul 1999), 11A1305
Coupling of wind turbines to centrifugal pumps, Wind Eng **22**(5) 223-234 (1998), 12T1251
Analysis of lubricating characteristics of rotary compressors for domestic refrigerators, J Trib **121**(3) 510-516 (Jul 1999), 12A1254
Measurements of flow field in the scroll of forward-curved multi-blade centrifugal fan (Chinese), J Shanghai Jiaotong Univ **33**(3) 285-288 (Mar 1999), 12A1255
Inverse design of diffuser blade by neural networks (Chinese), J Xi'an Jiaotong Univ **33**(6) 39-41 (1999), 12A1257

380I. Axial fans, pumps, compressors

Generic design of ram pumps, Proc Inst Mech Eng A **212**(A2) 117-124 (1998), 1A1259
Modeling of turbine engine axial-flow compressor and turbine characteristics, Eng Trans **45**(3-4) 363-373 (1997), 1A1260
Active stabilization of rotating stall and surge in a transonic single-stage axial compressor, J Turbomachinery **120**(4) 625-636 (Oct 1998), 2A1236
Effects of nonaxisymmetric tip clearance on axial compressor performance and stability, J Turbomachinery **120**(4) 648-661 (Oct 1998), 2A1237
Effects of stream surface inclination on tip leakage flow fields in compressor rotors, J Turbomachinery **120**(4) 683-694 (Oct 1998), 2A1241
Influence of wake-wake interactions on loss fluctuations of a downstream axial compressor blade row, J Turbomachinery **120**(4) 695-704 (Oct 1998), 2A1242
Reduction of unsteady blade loading by beneficial use of vortical and potential disturbances in an axial compressor with rotor clocking, J Turbomachinery **120**(4) 705-713 (Oct 1998), 2A1245
Twin helical screw compressor - Part 1: Development, applications and competititve position, Proc Inst Mech Eng C **212**(C5) 355-367 (1998), 3A1195
Twin helical screw compressor - Part 2: A mathematical model of the working process, Proc Inst Mech Eng C **212**(C5) 369-380 (1998), 3A1196
Theoretical and experimental simulation of accident scenarios of the Joint European Torus cryogenic components - Part 1: the in-vessel cryopump, Proc Inst Mech Eng C **212**(C6) 509-524 (1998), 3A1496
Theoretical and experimental simulation of accident scenairos of the Joint European Torus cryogenic components - Part 2: The lower hybrid current drive cryopump, Proc Inst Mech Eng C **212**(C6) 525-530 (1998), 3A1497
Numerical optimization of a stator vane setting in multistage axial-flow compressors, Proc Inst Mech Eng A **212**(A4) 247-259 (1998), 4A1179
Aerodynamic modeling of multistage compressor flow fields - Part 1: Analysis of rotor-stator-rotor aerodynamic interaction, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 77-89 (1998), 4A1277
Aerodynamic modeling of multistage compressor flow fields - Part 2: Modeling deterministic stresses, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 91-107 (1998), 4A1278
Application of casing treatment to an industrial axial-flow fan, Proc Inst Mech Eng A **212**(A4) 22[illegible]-233 (1998), 4A1279
Three-dimensional flow in axial flow fans of non-free vortex design, Int J Heat Fluid Flow **19**(6) 601-607 (Dec 1998), 4A1284
Computation and measurement of the flow in axial flow fans with skewed blades, J Turbomachinery **121**(1) 59-66 (Jan 1999), 5A1132
Development of hub corner stall and its influence on the performance of axial compressor blade rows, J Turbomachinery **121**(1) 67-77 (Jan 1999), 5A1133
Numerical investigation of transonic axial compressor rotor flow using a low-Reynolds-Number k-ε turbulence model, J Turbomachinery **121**(1) 44-58 (Jan 1999), 5A1134
Experimental and numerical investigation of airfoil clocking and inter-blade-row gap effects on axial compressor performance, Int J Turbo Jet Engines **15**(4) 235-251 (1998), 7A1151
Physics of airfoil clocking in a high-speed axial compressor, Int J Turbo Jet Engines **15**(4) 259-270 (1998), 7A1152
Multimode control of axial compressors via stability-based switching controllers, J Propulsion Power **15**(2) 364-367 (Mar-Apr 1999), 8A1238
Prediction and measurement of rotating stall cells in an axial compressor, J Turbomachinery **121**(2) 365-375 (Apr 1999), 8A1239
Three-dimensional flowfield downstream of an axial-flow turbine rotor, J Propulsion Power **15**(2) 334-344 (Mar-Apr 1999), 8A1240
Pump research and development: Past, present, and future: An American perspective, J Fluids Eng **121**(2) 237-247 (Jun 1999), 9A1280
Pump research and development: Past, present, and future, J Fluids Eng **121**(2) 248-253 (Jun 1999), 9A1281
Pump research and development: Past, present, and future: Japanese perspective, J Fluids Eng **121**(2) 254-258 (Jun 1999), 9A1282
Numerical investigation of the dual performance characteristics of a small propeller fan using viscous flow calculations, Comput Fluids **28**(6) 815-823 (Jul 1999), 10A1279
Endwall blockage in axial compressors, J Turbomachinery **121**(3) 499-509 (Jul 1999), 11A1306
Influence of shrouded stator cavity flows on multistage compressor performance, J Turbomachinery **121**(3) 486-498 (Jul 1999), 11A1307
Simplified method for axial-flow turbomachinery design, J Brazilian Soc Mech Sci **21**(1) 61-70 (Mar 1999), 11A1308
Effect of upstream rotor vortical disturbances on the time-averaged performance of axial compressor stators - Part 1: Framework of technical approach and wake-stator blade interactions, J Turbomachinery **121**(3) 377-386 (Jul 1999), 11A1310
Effect of upstream rotor vortical disturbances on the time-averaged performance of axial compressor stators - Part 2: Rotor tip vortex-streamwise vortex-stator blade interactions, J Turbomachinery **121**(3) 387-397 (Jul 1999), 11A1311
Periodic transition on an axial compressor stator: Incidence and clocking effects - Part I: Experimental data, J Turbomachinery **121**(3) 398-407 (Jul 1999), 11A1312
Periodic transition on an axial compressor stator: Incidence and clocking effects - Part II: transition onset predictions, J Turbomachinery **121**(3) 408-415 (Jul 1999), 11A1313
Rotating stall control in a high-speed stage with inlet distortion - Part I: Radial distortion, J Turbomachinery **121**(3) 510-516 (Jul 1999), 11A1315
Rotating stall control in a high-speed stage with inlet distortion - Part II: Circumferential distortion, J Turbomachinery **121**(3) 517-524 (Jul 1999), 11A1316
Computer simulation and acoustic tuning of rolling piston vapor compressors, Comput Model Simul in Eng **4**(2) 117-123 (May 1999), 12T310
Modeling and simulation of pneumatically driven double-diaphragm pumps, Comput Model Simul in Eng **4**(2) 124-132 (May 1999), 12T1256

380J. Compressibility effects

Shock-loss model for transonic and supersonic axial compressors with curved blades, J Propulsion Power **14**(4) 470-478 (Jul-Aug 1998), 2A1238

380K. Mixed flow fans, pumps, compressors

Performance prediction of mixed-flow pumps, Proc Inst Mech Eng A **212**(A2) 109-115 (1998), 1A1261
Instabilities of shear flows between two coaxial differentially rotating cones, Phys Fluids **11**(6) 1676-1678 (Jun 1999), 11T1309

380L. Rotor and inducer blading

Design method for high-speed propulsor blades, J Fluids Eng **120**(3) 556-562 (Sep 1998), 1A1262
Design of the transonic blading of a fan by solving the inverse problem (French), Rev Francaise Mec **0**(2) 133-141 (Jun 1998), 1A1263
Investigation and control of backflow ahead of a shrouded inducer, J Fluids Eng **120**(3) 549-555 (Sep 1998), 1A1264
Analysis method for multistage transonic turbines with coolant mass flow addition, J Turbomachinery **120**(4) 744-752 (Oct 1998), 2A1116
Dynamic induced velocity field of a model rotor in hover conditions, Aeronaut J **102**(1016) 331-335 (Jun-Jul 1998), 2A1239
Effect of squealer tip on rotor heat transfer and efficiency, J Turbomachinery **120**(4) 753-759 (Oct 1998), 2A1240
Effects of stream surface inclination on tip leakage flow fields in compressor rotors, J Turbomachinery **120**(4) 683-694 (Oct 1998), 2A1241
Influence of wake-wake interactions on loss fluctuations of a downstream axial compressor blade row, J Turbomachinery **120**(4) 695-704 (Oct 1998), 2A1242
Inner workings of aerodynamic sweep, J Turbomachinery **120**(4) 671-682 (Oct 1998), 2A1243
Prediction of the becalmed region for LP turbine profile design, J Turbomachinery **120**(4) 839-846 (Oct 1998), 2A1244
Reduction of unsteady blade loading by beneficial use of vortical and potential disturbances in an axial compressor with rotor clocking, J Turbomachinery **120**(4) 705-713 (Oct 1998), 2A1245
Effect of unsteady wake on detailed heat transfer coefficient and film effectiveness distributions for a gas turbine blade, J Turbomachinery **120**(4) 808-817 (Oct 1998), 2A1280
Inviscid-viscous iterative solution for flowfield in transonic compressor rotor, Int J Turbo Jet Engines **15**(2) 109-117 (1998), 3A1075
Centrifugal pump performance drop due to leading edge cavitation: Numerical predictions compared with model tests, J Fluids Eng **120**(4) 705-711 (Dec 1998), 3A1191
Family of variational principles for compressible rotational blade-to-blade flow using semi-inverse method, Int J Turbo Jet Engines **15**(2) 95-100 (1998), 3A1197
Measurements of the aperiodic wake of a hovering rotor, Exp Fluids **25**(4) 352-361 (Sep 1998), 3A1198
Time-marching method for the calculation of nonsimilar 3D boundary layers on turbomachinery blades, J Fluids Eng **120**(4) 799-807 (Dec 1998), 3A1199
Turbine performance increases through airfoil clocking, Int J Turbo Jet Engines **15**(2) 119-127 (1998), 3A1200
High speed rotor wake total temperature measurements using a hot-film anemometer, Exp Fluids **25**(4) 337-346 (Sep 1998), 3A1207
Three-dimensional blade-vortex interaction in the strong vortex regime, Phys Fluids **10**(11) 2828-2845 (Nov 1998), 4A1034
Mechanisms of turbulence transport in a turbine blade coolant passage with a rib turbulator, J Turbomachinery **121**(1) 152-159 (Jan 1999), 5A1079
Flow in a "cover-plate" preswirl rotor-stator system, J Turbomachinery **121**(1) 160-166 (Jan 1999), 5A1135
Swirl brake effect on the rotordynamic stability of a shrouded impeller, J Turbomachinery **121**(1) 127-133 (Jan 1999), 5A1136
Consideration of unsteady interactions between blading rows in steady turbomachinery flow calculations (Chinese), J Tsinghua Univ Sci Tech **38**(7) 70-73 (Jul 1998), 6A1326
Whole-assembly flutter analysis of a low-pressure turbine blade, Aeronaut J **102**(1018) 459-463 (Oct-Dec 1998), 6A1327
Aeroelastic forced response of turbomachinery blades (French), Rev Francaise Mec **0**(4) 265-275 (Dec 1998), 7A1153
Development of an aerodynamical and mechanical optimization methodology of compressor blades (French), Rev Francaise Mec **0**(4) 247-253 (Dec 1998), 7A1154
Numerical simulation of the form of the free trailing vortex sheet in 3D compressible rotor flow, Int J Turbo Jet Engines **15**(4) 271-274 (1998), 7A1155
Optimization of trailing edge ejection mixing losses: A theoretical and experimental study, J Fluids Eng **121**(1) 118-125 (Mar 1999), 7A1156
Theoretical and experimental study of the blade to blade flow through a centrifugal pump, Int J Turbo Jet Engines **15**(4) 275-291 (1998), 7A1157
Heat transfer distributions on a cylinder with simulated thermal barrier coating spallation, J Thermo-

phys Heat Transfer **13**(1) 76-81 (Jan-Mar 1999), 7A1260

Method of rotor orbit purification based on wavelet packets (Chinese), J Huazhong Univ Sci Tech **26**(12) 8-9 (Dec 1998), 8A451

Improvement of performance in steam turbine by developing 3D designed blades, JSME Int J Ser B **41**(4) 1035-1041 (Nov 1998), 8T1230

Development of 3D aerodynamic design blades for turbines, JSME Int J Ser B **41**(4) 1042-1049 (Nov 1998), 8T1241

Disk temperature details of rim seal turbulent heat diffusion and disk frictional heating, J Propulsion Power **15**(2) 280-287 (Mar-Apr 1999), 8A1242

Fluid flow in a rotating low-specific-speed centrifugal impeller passage, Fluid Dyn Res **24**(5) 275-292 (May 1999), 8A1243

Practical use of 3D inverse method for compressor blade design, J Turbomachinery **121**(2) 321-325 (Apr 1999), 8A1244

Resonance characteristics of turbine blades with compound periodic structure, JSME Int J Ser B **41**(3) 727-733 (Aug 1998), 8T1245

Turbomachinery blade design using a Navier-Stokes solver and artificial neural network, J Turbomachinery **121**(2) 326-332 (Apr 1999), 8A1246

Vortex simulation of rotor-stator interaction in turbomachinery, J Turbomachinery **121**(2) 358-364 (Apr 1999), 8A1247

Numerical simulations of wake structure generated by rotating blades using a time marching, free vortex blob method, Eur J Mech B **18**(1) 147-159 (Jan-Feb 1999), 8A1253

Rotordynamic forces on an open-type centrifugal compressor impeller in whirling motion, J Fluids Eng **121**(2) 259-265 (Jun 1999), 9A1291

Modified near wake dynamic model for rotor analysis, Aeronaut J **103**(1021) 143-146 (Mar 1999), 11A1098

Unsteady heat transfer in stator-rotor interaction by two-equation turbulence model, J Turbomachinery **121**(3) 436-447 (Jul 1999), 11A1159

Parallel computation of turbine blade clocking, Int J Turbo Jet Engines **16**(1) 49-60 (1999), 11A1296

Influence of shrouded stator cavity flows on multistage compressor performance, J Turbomachinery **121**(3) 486-498 (Jul 1999), 11A1307

Effect of upstream rotor vortical disturbances on the time-averaged performance of axial compressor stators - Part 1: Framework of technical approach and wake-stator blade interactions, J Turbomachinery **121**(3) 377-386 (Jul 1999), 11A1310

Effect of upstream rotor vortical disturbances on the time-averaged performance of axial compressor stators - Part 2: Rotor tip vortex-streamwise vortex-stator blade interactions, J Turbomachinery **121**(3) 387-397 (Jul 1999), 11A1311

Periodic transition on an axial compressor stator: Incidence and clocking effects - Part I: Experimental data, J Turbomachinery **121**(3) 398-407 (Jul 1999), 11A1312

Periodic transition on an axial compressor stator: Incidence and clocking effects - Part II: transition onset predictions, J Turbomachinery **121**(3) 408-415 (Jul 1999), 11A1313

Role of tip leakage vortex breakdown in compressor rotor aerodynamics, J Turbomachinery **121**(3) 469-480 (Jul 1999), 11A1314

Rotating stall control in a high-speed stage with inlet distortion - Part I: Radial distortion, J Turbomachinery **121**(3) 510-516 (Jul 1999), 11A1315

Rotating stall control in a high-speed stage with inlet distortion - Part II: Circumferential distortion, J Turbomachinery **121**(3) 517-524 (Jul 1999), 11A1316

Simulation of vortex shedding in a turbine stage, J Turbomachinery **121**(3) 428-435 (Jul 1999), 11A1317

Pseudospectral orbit simulation of nonideal gas-lubricated journal bearings for microfabricated turbomachines, J Trib **121**(3) 604-609 (Jul 1999), 12A1273

380M. Stator vanes, inlet guide vanes, diffuser vanes

Aspects of vane cooling with high turbulence - Part I: Heat transfer, J Turbomachinery **120**(4) 768-776 (Oct 1998), 2A1246

Aspects of vane film cooling with high turbulence - Part II: Adiabatic effectiveness, J Turbomachinery **120**(4) 777-784 (Oct 1998), 2A1247

Inverse design method of diffuser blades by genetic algorithms, Proc Inst Mech Eng A **212**(A4) 261-268 (1998), 4A1280

Influence of film cooling on the efficiency of an annular nozzle guide vane cascade, J Turbomachinery **121**(1) 145-151 (Jan 1999), 5A1137

Numerical flow analysis in a subsonic vaned radial diffuser with leading edge redesign, J Turbomachinery **121**(1) 119-126 (Jan 1999), 5A1138

Influence of endwall contouring on the performance of a turbine nozzle guide vane, J Turbomachinery **121**(2) 200-208 (Apr 1999), 8A1248

Measurement and calculation of nozzle guide vane end wall heat transfer, J Turbomachinery **121**(2) 184-190 (Apr 1999), 8A1249

Measurements of discharge coefficients in film cooling, J Turbomachinery **121**(2) 243-248 (Apr 1999), 8A1289

Minimization of the local rates of entropy production in the design of air-cooled gas turbine blades, J Eng Gas Turbines Power **121**(3) 466-475 (Jul 1999), 10A1280

Design and testing of swept and leaned outlet guide vanes to reduce stator-strut-splitter aerodynamic flow interactions, J Turbomachinery **121**(3) 416-427 (Jul 1999), 11A1318

Effect of endwall boundary layer suction on secondary flow of turbine stator cascade (Chinese), J Xi'an Jiaotong Univ **33**(5) 49-53 (1999), 11A1319

External heat transfer predictions in a highly loaded transonic linear turbine guide vane cascade using an upwind biased Navier-Stokes solver, J Turbomachinery **121**(3) 525-531 (Jul 1999), 11A1320

Heat transfer and flowfield measurements in the leading edge region of a stator vane endwall, J Turbomachinery **121**(3) 558-568 (Jul 1999), 11A1321

Performance of a viscous pump with radial pumping grooves at low speeds, Trib Trans **42**(2) 425-428 (Apr 1999), 11A1322

Inverse design of diffuser blade by neural networks (Chinese), J Xi'an Jiaotong Univ **33**(6) 39-41 (1999), 12A1257

380N. Jet pumps and compressors

Theoretical modeling of central air-jet pump performance for pneumatic transportation of bulk solids, J Fluids Eng **121**(2) 365-372 (Jun 1999), 9A1292

Recent Development of Aerodynamic Design Methodologies: Inverse Design and Optimization (Verlag Vieweg, Wiesbaden, 1999) 10N27

380Q. Rotary compressors and pumps (roots, gears, screws, etc)

Analysis of scroll motion feeder and gas flow velocity at discharge hole (Chinese), J Xi'an Jiaotong Univ **32**(7) 56-59 (1998), 3A1201

Analytical modeling of thermodynamic process for scroll compressor with back pressure optimization (Chinese), J Xi'an Jiaotong Univ **32**(7) 51-55 (1998), 3A1202

Computation of pressure loads in three screw pump rotors, J Mech Des **120**(4) 581-588 (Dec 1998), 3A1203

Dynamic effects of pressure loads in three screw pump rotors, J Mech Des **120**(4) 589-592 (Dec 1998), 3A1204

Experimental rotordynamic coefficient results for (a) a labyrinth seal with and without shunt injection and (b) a honeycomb seal, J Eng Gas Turbines Power **121**(1) 153-159 (Jan 1999), 5A855

Dynamic characteristics of gate rotor for single screw compressor (Chinese), J Xi'an Jiaotong Univ **32**(11) 58-62 (1998), 5A1139

Improved characteristics of scroll machines with multiple spiral (Chinese), J Xi'an Jiaotong Univ **32**(12) 90-93 (1998), 6A1328

Centrifugal and Rotary Pumps: Fundamentals with Applications (CRC Press, Boca Raton FL, 1999) 9R32

Performance analysis of automotive torque converter elements, J Fluids Eng **121**(2) 266-275 (Jun 1999), 9A1295

380R. Propellers and helicopter rotors

New approach to propeller wake vortex (Chinese), J Dalian Univ Tech **38**(4) 450-456 (Jul 1998), 1A1265

Optimized aeroelastic couplings for alleviation of helicopter ground resonance, J Aircraft **35**(4) 582-590 (Jul-Aug 1998), 1A1266

Simulation of helicopter rotor-system structural damage, blade mistracking, friction, and freeplay, J Aircraft **35**(4) 591-597 (Jul-Aug 1998), 1A1267

Adaptive grid sequencing and interpolation schemes for helicopter rotor wake analyses, AIAA J **36**(9) 1593-1602 (Sep 1998), 2A1248

Sea trials of the ducted tip propeller, J Fluids Eng **120**(4) 808-817 (Dec 1998), 3A1205

Effects of ballistic damage on the aerodynamics of helicopter rotor airfoils, J Aircraft **35**(5) 695-703 (Sep-Oct 1998), 4A1281

Flowfield and acoustic measurements from a model tiltrotor in hover, J Aircraft **35**(6) 921-929 (Nov-Dec 1998), 6A1316

Wake forces implied in the Theodorsen and Goldstein theories of propellers, J Aircraft **35**(6) 930-955 (Nov-Dec 1998), 6A1329

Computation of unsteady viscous marine-propulsor blade flows - Part 2: Parametric study, J Fluids Eng **121**(1) 139-147 (Mar 1999), 7A1158

Wing pitching and loading with propeller interference, J Aircraft **36**(2) 468-471 (Mar-Apr 1999), 9T1117

Aeroelastic response of a coupled rotor-fuselage system in hovering and forward flight, Arch Appl Mech **69**(1) 68-82 (Feb 1999), 9A1293

Numerical model of cavitating propeller inside of a tunnel, J Fluids Eng **121**(2) 297-304 (Jun 1999), 9A1294

380T. Other machinery

Analysis of viscous micropumps and microturbines, Int J Comput Fluid Dyn **10**(1) 13-25 (1998), 2A1249

Multidimensional modeling of impinging sprays on the wall in diesel engines, Appl Mech Rev **52**(4) 119-138 (Apr 1999), 5A1140

Aerodynamic character of dual channel swirl burner (Chinese), J Xi'an Jiaotong Univ **32**(12) 34-38 (1998), 6A1330

Plexiglas research pump with calibrated magnetic bearings-load cells for radial and axial hydraulic force measurement, J Fluids Eng **121**(1) 126-132 (Mar 1999), 7A1159

Characterization of a valveless micropump based on liquid viscosity, Microscale Thermophys Eng **3**(1) 31-42 (Jan-Mar 1999), 8A1250

Performance analysis of automotive torque converter elements, J Fluids Eng **121**(2) 266-275 (Jun 1999), 9A1295

Performance of a viscous pump with radial pumping grooves at low speeds, Trib Trans **42**(2) 425-428 (Apr 1999), 11A1322

Compressibility and condensation effects when pumping gas-liquid mixtures, Fluid Dyn Res **25**(2) 57-62 (Aug 1999), 12A1129

Predicted combined effects of purge flow and rotor-casing eccentricity on ingress heating, J Propulsion Power **15**(3) 454-461 (May-Jun 1999), 12A1258

380Y. Computational techniques

Numerical prediction of the flow-induced thermal loading of a 250 MW steam turbine HP casing (French), Rev Francaise Mec **0**(2) 89-98 (Jun 1998), 1A1251

Loosely coupled unsteady flow simulation of a single stage compressor, Int J Comput Fluid Dyn **10**(1) 73-89 (1998), 2A1233

Adaptive grid sequencing and interpolation schemes for helicopter rotor wake analyses, AIAA J **36**(9) 1593-1602 (Sep 1998), 2A1248

Analysis of viscous micropumps and microturbines, Int J Comput Fluid Dyn **10**(1) 13-25 (1998), 2A1249

Time-marching method for the calculation of nonsimilar 3D boundary layers on turbomachinery blades, J Fluids Eng **120**(4) 799-807 (Dec 1998), 3A1199

Near-wall k-ε computation of transonic turbomachinery flows with tip clearance, AIAA J **36**(10) 1769-1777 (Oct 1998), 3A1206

Aerodynamic modeling of multistage compressor flow fields - Part 1: Analysis of rotor-stator-rotor aerodynamic interaction, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 77-89 (1998), 4A1277

Aerodynamic modeling of multistage compressor flow fields - Part 2: Modeling deterministic stresses, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 91-107 (1998), 4A1278

Aerodynamic inverse design of turbomachinery cascades using a finite volume method on unstructured meshes, Inverse Prob Eng **6**(4) 281-298 (1998), 4A1282

Compressor cascade flow with strong shock-wave and boundary-layer interaction, AIAA J **36**(11) 2072-2078 (Nov 1998), 5A986

Efficient approach for analysis of unsteady viscous flows in turbomachines, AIAA J **36**(11) 2005- 2012 (Nov 1998), 5A1141

Numerical prediction of unsteady transitional boundary layer caused by rotor-stator interaction, J Propulsion Power **14**(6) 916-924 (Nov-Dec 1998), 5A1142

Three-dimensional flow theory of turbomachinery - Part 1: Basic methodology, J Propulsion Power **14**(6) 899-906 (Nov-Dec 1998), 5A1143

Three-dimensional flow theory of turbomachinery - Part 2: Design and analysis system, J Propulsion Power **14**(6) 907-915 (Nov-Dec 1998), 5A1144

Multigrid Navier-Stokes CFD code for rotor computations, Comput Methods Appl Mech Eng **167**(1-2) 127-137 (Dec 1998), 6A1331

Three-dimensional analysis of flow in the spiral casing of a reaction turbine using a differently weighted Petrov Galerkin method, Comput Methods Appl Mech Eng **167**(1-2) 167-190 (Dec 1998), 6A1332

Computation of unsteady viscous marine-propulsor blade flows - Part 2: Parametric study, J Fluids Eng **121**(1) 139-147 (Mar 1999), 7A1158

Heat transfer on a film-cooled blade: Effect of hole physics, Int J Heat Fluid Flow **20**(1) 10-25 (Feb 1999), 7A1282

Investigation of periodic boundary conditions in multipassage cascade flows using overset grids, J Turbomachinery **121**(2) 341-347 (Apr 1999), 8A1251

Nonlinear numerical simulator for 3D flows through vibrating blade rows, J Turbomachinery **121**(2) 349-357 (Apr 1999), 8A1252

Numerical simulations of wake structure generated by rotating blades using a time marching, free vortex blob method, Eur J Mech B **18**(1) 147-159 (Jan-Feb 1999), 8A1253

Multistage simulation by an adaptive FE approach using structured grids, J Fluids Eng **121**(2) 450-459 (Jun 1999), 9A34

Numerical design study of the valveless diffuser pump using a lumped-mass model, J Micromech Microeng **9**(1) 34-44 (Mar 1999), 9T493

Steady and unsteady computations of turbulent flows induced by a 4-45° pitched-blade impeller, J Fluids Eng **121**(2) 318-329 (Jun 1999), 9A1244

Computational fluid dynamics for turbomachinery design, Proc Inst Mech Eng C **213**(C2) 107-124 (1999), 9A1296

Development of a sensitivity derivative version of the FPX CFD code via automatic differentiation, Adv Eng Software **30**(4) 273-279 (Apr 1999), 9A1297

Exploitation of 3D flow in turbomachinery design, Proc Inst Mech Eng C **213**(C2) 125-137 (1999), 9A1298

Turbomachinery design - Part 1, Proc Inst Mech Eng C **213**(C1) 1-102 (1999), 9T1299

Numerical investigation of the dual performance characteristics of a small propeller fan using viscous flow calculations, Comput Fluids **28**(6) 815-823 (Jul 1999), 10A1279

Minimization of the local rates of entropy production in the design of air-cooled gas turbine blades, J Eng Gas Turbines Power **121**(3) 466-475 (Jul 1999), 10A1280

Numerical computation of steam flow in power plant condensers utilizing the 3D procedure, Trans Inst Fluid-Flow Machinery **0**(104) 31-44 (1998), 10T1281

Experimental and numerical investigation of the flow field in a linear turbine cascade including tip clearance effects, Trans Inst Fluid-Flow Machinery **0**(104) 73-88 (1998), 10A1282

Numerical simulation of the shock-tip leakage vortex interaction in a HPC front stage, J Turbomachinery **121**(3) 456-468 (Jul 1999), 11A1151

Parallel implementation of an upwind Euler solver for hovering rotor flows, Aeronaut J **103**(1021) 129-138 (Mar 1999), 11A1164

Development and validation of Navier-Stokes procedure for turbomachinery unsteady flow, AIAA J **37**(5) 557-563 (May 1999), 11A1299

Numerical simulation of impeller-volute interaction in centrifugal compressors, J Turbomachinery **121**(3) 603-608 (Jul 1999), 11A1305

Physics of hot crossflow ingestion in film cooling, J Turbomachinery **121**(3) 532-541 (Jul 1999), 11A1373

Adaptive analysis of oscillating cascade flows on a quadrilateral-triangular mesh, J Propulsion Power **15**(3) 479-481 (May-Jun 1999), 12A1259

Biharmonic 3D grid generation for axial turbomachinery with tip clearance, J Propulsion Power **15**(3) 476-479 (May-Jun 1999), 12A1260

Superelement-based method for computing unsteady 3D potential flows in hydraulic turbomachines, Commun Numer Methods Eng **15**(6) 381-397 (Jun 1999), 12A1261

Numerical simulation and aeorthermal physics of leading edge film cooling, Proc Inst Mech Eng A **213**(A2) 103-118 (1999), 12A1337

380Z. Experimental techniques

Development and application of a fast-response aerodynamic probe measurement system for turbomachinery (French), Rev Francaise Mec **0**(2) 121-131 (Jun 1998), 1A1268

Laser interferometry for experimental modal analysis of jet-engine blades, Strojnicky Casopis **49**(3) 176-186 (1998), 1A1269

Three-dimensional blade boundary layer and endwall flow development in the nozzle passage of a single stage turbine, J Fluids Eng **120**(3) 570-579 (Sep 1998), 1A1425

Unsteady total temperature measurements downstream of a high-pressure turbine, J Turbomachinery **120**(4) 760-767 (Oct 1998), 2A1250

Detailed film cooling measurements on a cylindrical leading edge model: Effect of freestream turbulence and coolant density, J Turbomachinery **120**(4) 799-807 (Oct 1998), 2A1283

Low-aspect-ratio rib heat transfer coefficient measurements in a square channel, J Turbomachinery **120**(4) 831-838 (Oct 1998), 2A1285

Measurements in film cooling flows: Hole L-D and turbulence intensity effects, J Turbomachinery **120**(4) 791-798 (Oct 1998), 2A1286

Measurements of the aperiodic wake of a hovering rotor, Exp Fluids **25**(4) 352-361 (Sep 1998), 3A1198
High speed rotor wake total temperature measurements using a hot-film anemometer, Exp Fluids **25**(4) 337-346 (Sep 1998), 3A1207
New calibration method for dynamically loaded transducers and its application to cavitation impact measurement, J Fluids Eng **120**(4) 712-718 (Dec 1998), 3A1208
Application of thin-film technology to measure turbine-vane heat transfer and effectiveness in a film-cooled, engine-simulated environment, Int J Heat Fluid Flow **19**(6) 594-600 (Dec 1998), 4A1102
Aerodynamic modeling of multistage compressor flow fields - Part 2: Modeling deterministic stresses, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 91-107 (1998), 4A1278
LDV measurements of a mixed-flow impeller at design and near stall, Int J Turbo Jet Engines **15**(3) 187-201 (1998), 4A1283
Three-dimensional flow in axial flow fans of non-free vortex design, Int J Heat Fluid Flow **19**(6) 601-607 (Dec 1998), 4A1284
Two-dimensional LDV measurements in the inlet and exit manifolds of a single stage oxidizer turbine, Int J Turbo Jet Engines **15**(3) 175-186 (1998), 4A1285
Development of hub corner stall and its influence on the performance of axial compressor blade rows, J Turbomachinery **121**(1) 67-77 (Jan 1999), 5A1133
Automatic genetic optimization approach to 2D blade profile design for steam turbines, J Turbomachinery **121**(1) 11-17 (Jan 1999), 5A1145
Computation of adjacent blade-row effects in a 1.5-stage axial flow turbine, J Turbomachinery **121**(1) 1-10 (Jan 1999), 5A1146
Effect of time-varying wake flow characteristics behind flat plates, AIAA J **36**(11) 2036-2043 (Nov 1998), 5A1147
LDV study of developing flows through a smooth duct with a 180° straight-corner turn, J Turbomachinery **121**(1) 167-174 (Jan 1999), 5A1148
New concept for squirrel-cage fan inlet, Proc Inst Mech Eng A **212**(A5) 343-349 (1998), 6A1333
Plexiglas research pump with calibrated magnetic bearings-load cells for radial and axial hydraulic force measurement, J Fluids Eng **121**(1) 126-132 (Mar 1999), 7A1159
Investigation of detailed film cooling effectiveness and heat transfer distributions on a gas turbine airfoil, J Turbomachinery **121**(2) 233-242 (Apr 1999), 8A1288
Experimental and numerical investigation of the flow field in a linear turbine cascade including tip clearance effects, Trans Inst Fluid-Flow Machinery **0**(104) 73-88 (1998), 10A1282
Identification of the effects of the flow through the holes in the rotating wheel of an impulse turbine, Trans Inst Fluid-Flow Machinery **0**(104) 89-104 (1998), 10T1283
Flow measurements in a curved-wall annular contraction, J Eng Gas Turbines Power **121**(3) 444-450 (Jul 1999), 10A1470
Turbulence spectra and length scales measured in film coolant flows emerging from discrete holes, J Turbomachinery **121**(3) 551-557 (Jul 1999), 11A1274
Dual-laser probe measurement of blade-tip clearance, J Turbomachinery **121**(3) 481-485 (Jul 1999), 11A1323
Comprex type supercharger as a pressure-wave transformer flow characteristics, Arch Budowy Maszyn **46**(1) 57-77 (1999), 12A1262

382. LUBRICATION

382A. General theory

Elastohydrodynamic analysis of one-layered journal bearings, Proc Inst Mech Eng J: Eng Trib **212**(J3) 193-205 (1998), 1A1041
Bracing of structures, and the special theory of relativity, Int J Solids Struct **35**(33) 4369-4379 (Nov 1998), 1A1156
Squeeze film characteristics of finite journal bearings: Couple stress fluid model, Trib Int **31**(4) 201-207 (Apr 1998), 1T1270
Compressible Narrow Groove Analysis - Part 1: Derivation, J Trib **120**(4) 758-764 (Oct 1998), 2A1263
Ultra-thin gas squeeze film characteristics for infinitely large squeeze number, J Trib **120**(4) 750-757 (Oct 1998), 2A1265
Analytical study of the effect of a circumferential feeding groove on the unbalance response of a rigid rotor in a squeeze film damper, Trib Int **31**(5) 265-270 (May 1998), 3T1209
Controllable high speed journal bearings, lubricated with electro-rheological fluids: An analytical and experimental approach, Trib Int **31**(5) 225-234 (May 1998), 3A1210
Solving EHL problems using iterative, multigrid, and homotopy methods, J Trib **121**(1) 28-34 (Jan 1999), 4A1290
Numerical analysis of herringbone-grooved gas-lubricated journal bearings using a multigrid technique, J Trib **121**(1) 148-156 (Jan 1999), 4A1299
Fluid Film Lubrication: Theory and Design (Cambridge UP, New York, 1998) 5R33
Adsorbent layer model for thin film lubrication, Wear **221**(1) 9-14 (Oct 1998), 5A1149
Flow of a yield strength fluid through a contraction, J Non-Newtonian Fluid Mech **81**(3) 183-195 (Mar 1999), 7A1058
Stability of gas bearing sliders for large bearing number: Convective instability of the tapered slider, Trib Trans **42**(1) 216-222 (Jan 1999), 8A930
Inclusion of lubricant shear thinning in the short bearing approximation, Proc Inst Mech Eng J: Eng Trib **213**(J1) 35-46 (1999), 8A1254
Viscosity and density models for aerated oil in fluid-film bearings, Trib Trans **42**(1) 186-191 (Jan 1999), 8A1255
Micropolar Fluids: Theory and Applications (Birkhauser Boston, MA, 1998) 9N37
Proceedings of the 1999 Energy Sources Technology Conference (ASME, New York, 1999) 10N33
Application of Newton's method to the lubrication analysis of air-lubricated bearings, Trib Trans **42**(2) 419-424 (Apr 1999), 11A1324
Experimental study on the mechanism of lubrication in hydrodynamic porous thrust bearings with a wavy surface, J Trib **121**(3) 538-545 (Jul 1999), 12A1266
Insights into micro-EHL pressures, J Trib **121**(3) 473-480 (Jul 1999), 12A1267
Mixed elastohydrodynamic lubrication model with asperity contact, J Trib **121**(3) 481-491 (Jul 1999), 12A1268

382B. Boundary lubrication

Modeling of mixed hydrodynamic and boundary lubrication: Layered structures and shear thinning, Proc Inst Mech Eng J: Eng Trib **212**(J3) 171-177 (1998), 1T1271
Fundamental study on normal load dependencey of friction characteristics in boundary lubrication, Trib Trans **41**(3) 341-349 (Jul 1998), 2A1251
Mixed lubrication model for cold strip rolling - Part I: Theoretical, Trib Trans **41**(3) 317-326 (Jul 1998), 2T1252
Fluid Film Lubrication: Theory and Design (Cambridge UP, New York, 1998) 5R33
Special Issue Fifth International Symposium - INSYCONT '98: Technical University of Mining and Metallurgy, Cracow Poland, Trib **29**(6) 871-1051 (1998), 7A896
Step response characteristics of hydrostatic journal bearings with self-controlled restrictors employing a floating disk, J Trib **121**(2) 315-320 (Apr 1999), 8A1256
Slip-flow boundary conditions for non-Newtonian lubrication layers, Fluid Dyn Res **24**(4) 211-217 (Apr 1999), 8A1275
Macroscale and microscale tribological studies of molecularly thick boundary layers of perfluoropolyether lubricants for magnetic thin-film rigid disks, J Info Storage Processing Syst **1**(1) 1-21 (Jan 1999), 12A1263
Molecular dynamics simulation of boundary lubricated interfaces, J Comput-Aided Mat Des **6**(1) 69-80 (1999), 12A1264

382C. Hydrodynamic and hydrostatic lubrication

Modeling of mixed hydrodynamic and boundary lubrication: Layered structures and shear thinning, Proc Inst Mech Eng J: Eng Trib **212**(J3) 171-177 (1998), 1T1271
Nonlinear analysis of hydrodynamical bearings in a vertical shaft (Spanish), J Brazilian Soc Mech Sci **20**(2) 244-262 (Jun 1998), 1A1272
Numerical and experimental investigation into porous squeeze films, Trib Int **31**(4) 189-199 (Apr 1998), 1T1273
Rotordynamic modeling of a hydrodynamic pivoted-pad thrust bearing, Trib Int **31**(4) 175-181 (Apr 1998), 1A1274
Investigation into the effect of proteoglycan molecules on the tribological properties of cartilage joint tissues, Proc Inst Mech Eng H **212**(H3) 177-182 (1998), 1A1486
Prediction of transient lubricating film thickness in knee prostheses with compliant layers, Proc Inst Mech Eng H **212**(H3) 157-164 (1998), 1A1544
Mixed lubrication model for cold strip rolling - Part I: Theoretical, Trib Trans **41**(3) 317-326 (Jul 1998), 2T1252
Performance of hydrostatic-hybrid journal bearings with unconventional recess geometries, Trib Trans **41**(3) 375-381 (Jul 1998), 2A1253
Surface roughness effects in hydrodynamic lubrication involving the mixture of two fluids, J Trib **120**(4) 772-780 (Oct 1998), 2A1254
Theoretical and experimental dynamic characteristics of a highly preloaded three-lobe journal bearing, Trib Trans **41**(3) 392-398 (Jul 1998), 2T1255
Vibration analysis of statically indeterminate rotors with hydrodynamic bearings, J Trib **120**(4) 781-788 (Oct 1998), 2A1256
Analytical study of plate foil journal gas bearings (Chinese), J Xi'an Jiaotong Univ **32**(9) 56-59 (1998), 3A964
Analytical study of the effect of a circumferential feeding groove on the unbalance response of a rigid rotor in a squeeze film damper, Trib Int **31**(5) 265-270 (May 1998), 3T1209
Controllable high speed journal bearings, lubricated with electro-rheological fluids: An analytical and experimental approach, Trib Int **31**(5) 225-234 (May 1998), 3A1210
Hydrodynamic Lubrication: Bearings and Thrust Bearings (Elsevier Sci BV, Netherlands, 1997) 4R22
Surface roughness effects infinitely long porous journal bearings, J Trib **121**(1) 139-147 (Jan 1999), 4A865
Air film thickness estimation in web handling processes, J Trib **121**(1) 50-55 (Jan 1999), 4A1286
Effects of groove orientation on hydrodynamic behavior of wet clutch coolant films, J Trib **121**(1) 56-61 (Jan 1999), 4A1287
Numerical analysis of static characteristics at start of operation in porous journal bearings with sealed ends, J Trib **121**(1) 62-68 (Jan 1999), 4A1288
Orbit induced journal temperature variation in hydrodynamic bearings, J Trib **121**(1) 77-84 (Jan 1999), 4A1298
Transient discharge of entrained air from a wound roll, J Appl Mech **65**(4) 804-810 (Dec 1998), 5A1039
Experimental study of hydrodynamic propulsion of a medical device with a spiral ribbed impeller, Wear **220**(2) 141-144 (Oct 1998), 5A1150
Hydrodynamic lubrication analysis for tube spinning process, Wear **220**(2) 145-153 (Oct 1998), 5A1151
Modeling aspects of a rate-controlled seizure in an unloaded journal bearing, Trib Trans **41**(4) 481-488 (Oct 1998), 5A1152
Distributed law of hydrodynamic lubrication of a cylinder liner of an internal combustion engine, Trib Trans **41**(4) 610-614 (Oct 1998), 5A1416
Effect of surface waviness on the hydrodynamic lubrication of a plain cylindrical sliding element bearing, Wear **223**(1-2) 1-6 (Dec 1998), 6A1334
Study of optimum load-bearing capacity for slider bearings lubricated with couple stress fluids in magnetic field, Trib Int **31**(7) 393-400 (Jul 1998), 6T1335
Use of computational fluid dynamics in hydrodynamic lubrication, Proc Inst Mech Eng J: Eng Trib **212**(J6) 427-436 (1998), 6A1336
Stiffness of flat pad aerostatic bearings, J Eng Appl Sci **45**(5) 721-739 (Oct 1998), 7A1160
Influence of pad pivot friction on tilting-pad journal bearing measurements - Part II: Dynamic coefficients, Trib Trans **42**(1) 250-256 (Jan 1999), 8T890
Unbalance response and stability analysis of a rotor supported on hydrodynamic journal bearings with rough surfaces, Proc Inst Mech Eng J: Eng Trib **213**(J1) 31-34 (1999), 8T1257
Mechanism of hydrodynamic load capacity generation on a slideway, JSME Int J Ser C **41**(1) 125-133 (Mar 1998), 9A1300
Estimate accuracy of nonlinear coefficients of squeezefilm damper using state variable filter method, Chinese J Mech Eng **11**(3) 176-182 (Sep 1998), 10A1284
Solution for pressure distribution in squeeze film damper with electrohydraulic active control, Chinese J Mech Eng **12**(1) 27-31 (Mar 1999), 10A1285
Model to calculate evaporative oil loss in spacecraft mechanisms, Trib Trans **42**(2) 282-288 (Apr 1999), 11A992
Stability of a new type of hydrostatic-hydrodynamic floating ring gas bearing, Trib Trans **42**(2) 331-337 (Apr 1999), 11A1325
Free and forced vibrations of a rotating disk pack and spindle motor system with hydrodynamic bearings, J Info Storage Processing Syst **1**(1) 45-58 (Jan 1999), 12A449
Direct and indirect approaches at the plasto-hydrodynamic lubrication problem. Application to an industrial ironing process, J Trib **121**(3) 523-527 (Jul 1999), 12A721
Calculation of dynamic coefficients in a hydrodynamic bearing considering five dof for a general rotor-bearing system, J Trib **121**(3) 499-505 (Jul 1999), 12A1265
Experimental study on the mechanism of lubrication in hydrodynamic porous thrust bearings with a wavy surface, J Trib **121**(3) 538-545 (Jul 1999), 12A1266
Analyses of heat-pipe cooled isothermal journal bearings, J Trib **121**(3) 546-552 (Jul 1999), 12A1402

382D. Elastohydrodynamic lubrication

Elastohydrodynamic analysis of one-layered journal bearings, Proc Inst Mech Eng J: Eng Trib **212**(J3) 193-205 (1998), 1A1041
Elastohydrodynamic film thickness for shear-thinning lubricants, Proc Inst Mech Eng J: Eng Trib **212**(J3) 179-191 (1998), 1T1275
Model of dynamic system in process of friction contact monitoring (Polish), Trib **29**(1) 51-67 (1998), 2A1003
Effects of the non-Newtonian behavior of lubricants on the temperature, traction, and film thickness in an elliptical EHD contact under heavy loads, J Trib **120**(4) 685-694 (Oct 1998), 2A1257
Engineering approach to deterministic modeling of mixed-film contacts, Trib Trans **41**(3) 327-334 (Jul 1998), 2A1258
Finite element system approach to EHL of elliptical contacts - Part I: Isothermal circular non-Newtonian formulation, J Trib **120**(4) 695-704 (Oct 1998), 2A1259
Waviness amplitude reduction in EHL line contacts under rolling-sliding, J Trib **120**(4) 705-709 (Oct 1998), 2A1260
Surface slip of lubrication properties for thrust bearing with elasto-plastic behavior (Chinese), J Xi'an Jiaotong Univ **32**(8) 39-42 (1998), 3A967
Prediction of traction in elastohydrodynamic lubrication, Proc Inst Mech Eng J: Eng Trib **212**(J5) 321-332 (1998), 4T1289
Solving EHL problems using iterative, multigrid, and homotopy methods, J Trib **121**(1) 28-34 (Jan 1999), 4A1290
Thermal elastohydrodynamic model of a radial lip seal - Part I: Analysis and base results, J Trib **121**(1) 1-10 (Jan 1999), 4A1291
Observations in transiently loaded EHL contacts under pure sliding conditions, Trib Trans **41**(4) 489-496 (Oct 1998), 5T1153
Elastohydrodynamic lubrication of a finite line contact, Wear **223**(1-2) 102-109 (Dec 1998), 6A1337
Elastohydrodynamic solution for concentrated elliptical point contact of machine elements under combined entraining and squeeze-film motion, Proc Inst Mech Eng J: Eng Trib **212**(J6) 401-411 (1998), 6A1338
Formulation of a non-steady lubrication problem for a non-conformal contact, Trib Trans **42**(1) 53-57 (Jan 1999), 8A910
Derivation of basic rheological parameters from experimental elastohydrodynamic lubrication traction curves of low-viscosity lubricants, Proc Inst Mech Eng J: Eng Trib **213**(J1) 53-61 (1999), 8T1258
Effect of velocity on micro-elastohydrodynamic lubrication character of indented surface (Chinese), J Xi'an Jiaotong Univ **33**(3) 81-85 (1999), 8A1259
Effects of structural vibrations on the film thickness in an EHL circular contact, J Trib **121**(2) 259-264 (Apr 1999), 8A1260
Experimental study on the concentration and shape of dents caused by spherical metallic particles in EHL contacts, Trib Trans **42**(1) 231-240 (Jan 1999), 8A1261
Simplified analysis of non-Newtonian effects in a circular elastohydrodynamic contact and comparison with experiment, Trib Trans **42**(1) 39-45 (Jan 1999), 8A1262
Study of a journal bearing lubricated by fluids with couple stress considering the elasticity of the liner, Wear **224**(2) 194-201 (Feb 1999), 8A1263
Thermal modeling and effects from debris particles in sliding-rolling EHD line contacts: A possible local scuffing mode, J Trib **121**(2) 272-281 (Apr 1999), 8A1264
Thermoelastic distortion of EHD line contacts during the passage of soft debris particles, J Trib **121**(2) 265-271 (Apr 1999), 8A1265
Finite-volume multigrid calculation method for elastohydrodynamically lubricated point contact problem, Trib Trans **42**(1) 96-105 (Jan 1999), 8A1273
Simultaneous solution of the governing equations of the thermo-elastohydrodynamic line contact problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 461-480 (1998), 9A582
Non-symmetric discretization formula for the numerical solution of elasto-hydrodynamic lubrication circular contact problem, Trib Int **31**(12) 761-765 (Dec !998), 9A1301
Temperature rise due to sliding in rolling-sliding elastohydrodynamic lubrication line contacts: An efficient numerical analysis for contact zone temperatures, Trib Int **31**(12) 745-752 (Dec 1998), 9T1302
Kinematics of two-sided surface features in elastohydrodynamic lubrication, Proc Inst Mech Eng J: Eng Trib **213**(J2) 95-108 (1999), 10T1286
Automatic system fr real-time evaluation of EHD film thickness and shape based on the colorimetric interferometry, Trib Trans **42**(2) 303-309 (Apr 1999), 11T1326
Automatic system fr real-time evaluation of EHD film thickness and shape based on the colorimetric interferometry, Trib Trans **42**(2) 303-309 (Apr 1999), 11T1326
Elastohydrodynamic film thickness mapping by computer differential colorimetry, Trib Trans **42**(2) 361-368 (Apr 1999), 11A1327
Insights into micro-EHL pressures, J Trib **121**(3) 473-480 (Jul 1999), 12A1267
Mixed elastohydrodynamic lubrication model with asperity contact, J Trib **121**(3) 481-491 (Jul 1999), 12A1268

Three-dimensional conservative model for self-lubricated porous journal bearings in a hydrodynamic steady state, J Trib **121**(3) 529-537 (Jul 1999), 12A1269

382E. Liquid lubricants

Molecular dynamics simulation of ultra-thin lubricating films, Proc Inst Mech Eng J: Eng Trib **212**(J3) 165-170 (1998), 1T1075
Elastohydrodynamic film thickness for shear-thinning lubricants, Proc Inst Mech Eng J: Eng Trib **212**(J3) 179-191 (1998), 1T1275
Effects of the non-Newtonian behavior of lubricants on the temperature, traction, and film thickness in an elliptical EHD contact under heavy loads, J Trib **120**(4) 685-694 (Oct 1998), 2A1257
Development of a gear oil scuff test procedure to predict adhesive wear resistance of turbine engine lubricants, Trib Trans **41**(3) 307-316 (Jul 1998), 2T1261
Influence of cupric oxide in lubricant on tribological properties of friction pairs (Polish), Trib **29**(1) 81-88 (1998), 2A1262
Controllable high speed journal bearings, lubricated with electro-rheological fluids: An analytical and experimental approach, Trib Int **31**(5) 225-234 (May 1998), 3A1210
Conical whirl instability of turbulent flow hybrid porous journal bearings, Trib Int **31**(5) 235-243 (May 1998), 3T1211
Numerical analysis of static characteristics at start of operation in porous journal bearings with sealed ends, J Trib **121**(1) 62-68 (Jan 1999), 4A1288
Comparison study on the performance of four types of oil lubricated hydrodynamic thrust bearings for hard disk spindles, J Trib **121**(1) 114-120 (Jan 1999), 4A1292
Frictional characteristics of ceramics under water-lubricated conditions, Trib Letters **5**(4) 303-308 (Oct 1998), 4T1293
Influence of lubricant rheology and surface topography in modeling friction at concentrated contacts, Proc Inst Mech Eng J: Eng Trib **212**(J6) 391-400 (1998), 6T1339
Study of N and S heterocyclic compound as a potential lubricating oil additive, Wear **224**(1) 160-164 (Jan 1999), 7A890
Tribological properties of the heterocyclic compound containing S, N, O, and B as additive in liquid paraffin, Wear **224**(1) 68-72 (Jan 1999), 7A1161
Development of a grease lubrication system for an expendable small turbomachine, Proc Inst Mech Eng J: Eng Trib **213**(J1) 47-51 (1999), 8T1266
Environmental aspects of lubricants, Proc Inst Mech Eng J: Eng Trib **213**(J1) 1-12 (1999), 8A1267
Optimal local buffer allocation in flexible manufacturing systems, Chinese J Mech Eng **11**(4) 312-318 (Dec 1998), 10A1287
Predicting traction in web handling, J Trib **121**(3) 618-624 (Jul 1999), 12A990
Lubrication model of an artificial hip joint: Pressure profile versus inclination angle of the acetabular cup, J Trib **121**(3) 492-498 (Jul 1999), 12A1270

382F. Gas lubricants

Compressible Narrow Groove Analysis - Part 1: Derivation, J Trib **120**(4) 758-764 (Oct 1998), 2A1263
Compressible Narrow Groove Analysis - Part 2: Computation of pressure field in a spherical device rotating in either direction, J Trib **120**(4) 765-771 (Oct 1998), 2A1264
Ultra-thin gas squeeze film characteristics for infinitely large squeeze number, J Trib **120**(4) 750-757 (Oct 1998), 2A1265
Environmental aspects of lubricants, Proc Inst Mech Eng J: Eng Trib **213**(J1) 1-12 (1999), 8A1267
Averaging technique for the analysis of rough surface high bearing number gas flows, J Trib **121**(2) 333-340 (Apr 1999), 8A1268
Rotordynamics and design methods of an oil-free turbocharger, Trib Trans **42**(1) 174-179 (Jan 1999), 8T1269
Stiffness and damping evaluation of air bearing sliders and new designs with high damping, J Trib **121**(2) 341-347 (Apr 1999), 8A1270
Simplified method for the correction of velocity slip and inertia effects in porous aerostatic thrust bearings, Trib Int **31**(12) 779-786 (Dec 1998), 9A1303
Concepts and limitations of using optical profilometry for air bearing simulations of hard disk sliders, Trib Trans **42**(2) 413-418 (Apr 1999), 11A975
Application of Newton's method to the lubrication analysis of air-lubricated bearings, Trib Trans **42**(2) 419-424 (Apr 1999), 11A1324
Stability of a new type of hydrostatic-hydrodynamic floating ring gas bearing, Trib Trans **42**(2) 331-337 (Apr 1999), 11A1325
Figures of merit for dynamically unloaded air bearing sliders, Trib Trans **42**(2) 407-412 (Apr 1999), 11T1328
Air bearing dynamics of sub-ambient pressure sliders during dynamic unload, J Trib **121**(3) 553-559 (Jul 1999), 12A1271
Method of reducing windage power loss in a laser scanner mirror by using the pumping effect of herringbone-grooved gas journal bearings, J Trib **121**(3) 506-509 (Jul 1999), 12A1272
Pseudospectral orbit simulation of nonideal gas-lubricated journal bearings for microfabricated turbomachines, J Trib **121**(3) 604-609 (Jul 1999), 12A1273
Ramp-load dynamics of proximity recording air bearing sliders in magnetic hard disk drive, J Trib **121**(3) 560-567 (Jul 1999), 12A1274
Theoretical prediction of ramp loading-unloading process in hard disk drives, J Trib **121**(3) 568-574 (Jul 1999), 12A1275

382H. Other lubricants

Grease lubrication in fretting, J Trib **120**(4) 737-743 (Oct 1998), 2A1266
Calcium sulfate as a high temperature solid lubricant, Wear **219**(2) 155-161 (Sep 1998), 4A1294
Lubricating ability of biomembrane models with dipalmitoyl phosphatidylcholine and γ-globulin, Proc Inst Mech Eng H **212**(H5) 337-346 (1998), 4T1295
Experimental investigations of porous bearings under vertical sinusoidally fluctuating loads, Trib Int **31**(6) 325-330 (Jun 1998), 5T852
Study on tribological properties of 2,5-dialkoxymethylthio-1,3,4-thiadiazoles, Wear **222**(2) 129-134 (Nov 1998), 6A1340
Synthesis, hydrolytic stability and tribological properties of novel borate esters containing nitrogen as lubricant additives, Wear **222**(2) 135-144 (Nov 1998), 6A1341
Analysis of Hubble Space Telescope reaction wheel lubricant, J Spacecraft Rockets **36**(1) 109-113 (Jan-Feb 1999), 7T1162
Particle generation by solid-lubricated bearings and ball screws in vacuum environments, Trib Trans **42**(1) 162-167 (Jan 1999), 8T1271
Wear behavior of SiC particulate reinforced aluminum composites sliding against steel balls under dry and lubricated conditions, Trib Letters **6**(2) 113-122 (Mar 1999), 10T1028
Evaluation of the tribological properties of the fatty grease modified with the metal-plating additive (Poland), Trib **30**(1) 97-106 (1999), 11A1329
Lubricity of reformulated gasoline fuels (Polish), Trib **30**(1) 41-53 (1999), 11A1330
Tribological properties of CeF_3 nanoparticles as additives in lubricating oils, Wear **230**(1) 35-38 (May 1999), 11A1331
Comparative evaluation of MoS_2 and WS_2 as power lubricants in high speed, multi-pad journal bearings, J Trib **121**(3) 625-630 (Jul 1999), 12A1276

382J. Thermal and thermoelastic effects

Journal asymmetric heating - Part I: Nonstationary bow, J Trib **121**(1) 157-163 (Jan 1999), 4A1296
Journal asymmetric heating - Part II: Alteration of rotor dynamic properties, J Trib **121**(1) 164-168 (Jan 1999), 4A1297
Orbit induced journal temperature variation in hydrodynamic bearings, J Trib **121**(1) 77-84 (Jan 1999), 4A1298
Modeling aspects of a rate-controlled seizure in an unloaded journal bearing, Trib Trans **41**(4) 481-488 (Oct 1998), 5A1152
Finite element thermohydrodynamic analysis of two-lobe oil seals used in high pressure centrifugal compressors, Trib Trans **41**(4) 554-562 (Oct 1998), 5T1154
Study of thermal boundary conditions for a plain journal bearing, Trib Int **31**(6) 289-296 (Jun 1998), 5T1155
Three-dimensional heat transfer temperature distribution of thrust bearing (Chinese), J Xi'an Jiaotong Univ **32**(12) 63-65 (1998), 6A1342
Thermoelastic distortion of EHD line contacts during the passage of soft debris particles, J Trib **121**(2) 265-271 (Apr 1999), 8A1265
Experimental study of transient thermal effects in a plain journal bearing, J Trib **121**(2) 327-332 (Apr 1999), 8A1272
Temperature rise due to sliding in rolling-sliding elastohydrodynamic lubrication line contacts: An efficient numerical analysis for contact zone temperatures, Trib Int **31**(12) 745-752 (Dec 1998), 9T1302
Method of reducing windage power loss in a laser scanner mirror by using the pumping effect of herringbone-grooved gas journal bearings, J Trib **121**(3) 506-509 (Jul 1999), 12A1272

382K. Multiphase lubricant, cavitation, and surface tension

Numerical and experimental investigation into porous squeeze films, Trib Int **31**(4) 189-199 (Apr 1998), 1T1273
Viscosity and density models for aerated oil in fluid-film bearings, Trib Trans **42**(1) 186-191 (Jan 1999), 8A1255

382L. Lubrication systems

Loose-ring lubricator model, Proc Inst Mech Eng C **213**(C3) 199-209 (1999), 11A1332

382Y. Computational techniques

Finite element system approach to EHL of elliptical contacts - Part I: Isothermal circular non-Newtonian formulation, J Trib **120**(4) 695-704 (Oct 1998), 2A1259
Compressible Narrow Groove Analysis - Part 2: Computation of pressure field in a spherical device rotating in either direction, J Trib **120**(4) 765-771 (Oct 1998), 2A1264
Comparison study on the performance of four types of oil lubricated hydrodynamic thrust bearings for hard disk spindles, J Trib **121**(1) 114-120 (Jan 1999), 4A1292
Numerical analysis of herringbone-grooved gas-lubricated journal bearings using a multigrid technique, J Trib **121**(1) 148-156 (Jan 1999), 4A1299
Use of computational fluid dynamics in hydrodynamic lubrication, Proc Inst Mech Eng J: Eng Trib **212**(J6) 427-436 (1998), 6A1336
Three-dimensional effects in dynamically loaded journal bearings, Int J Numer Methods Fluids **29**(3) 311-341 (Feb 1999), 7A80
Finite-volume multigrid calculation method for elastohydrodynamically lubricated point contact problem, Trib Trans **42**(1) 96-105 (Jan 1999), 8A1273
Novel method for integrating first- and second-order differential equations in elastohydrodynamic lubrication for the solution of smooth isothermal line contact problems, Int J Numer Methods Eng **44**(8) 1099-1113 (Mar 1999), 8A1274
Slip-flow boundary conditions for non-Newtonian lubrication layers, Fluid Dyn Res **24**(4) 211-217 (Apr 1999), 8A1275
Elastohydrodynamic film thickness mapping by computer differential colorimetry, Trib Trans **42**(2) 361-368 (Apr 1999), 11A1327

382Z. Experimental techniques

Development of the lateral effect photo diode technique to measure oil film thickness, Trib Trans **41**(3) 382-386 (Jul 1998), 2A1267
On-line measurement of damping coefficients with the help of a microcomputer, Trib Int **31**(6) 339-343 (Jun 1998), 5T843
Study of microtribology using scanning probe microscopy, J Japan Soc Precision Eng **64**(11) 1664-1668 (Nov 1998), 6A1343
Substitution of inexpensive bench tests for the FZG scuffing test - Part I: Calculations, Trib Trans **42**(1) 63-70 (Jan 1999), 8A919
Substitution of inexpensive bench tests for the FZG scuffing test - Part II: Oil tests, Trib Trans **42**(1) 71-75 (Jan 1999), 8A920
Experimental study on the concentration and shape of dents caused by spherical metallic particles in EHL contacts, Trib Trans **42**(1) 231-240 (Jan 1999), 8A1261
Simplified analysis of non-Newtonian effects in a circular elastohydrodynamic contact and comparison with experiment, Trib Trans **42**(1) 39-45 (Jan 1999), 8A1262
Experimental study of transient thermal effects in a plain journal bearing, J Trib **121**(2) 327-332 (Apr 1999), 8A1272
Correction for pressure dependence of the refractive index in measurements of lubricant film thickness with image analysis, Proc Inst Mech Eng J: Eng Trib **213**(J2) 109-126 (1999), 10A1288
Macroscale and microscale tribological studies of molecularly thick boundary layers of perfluoropolyether lubricants for magnetic thin-film rigid disks, J Info Storage Processing Syst **1**(1) 1-21 (Jan 1999), 12A1263

384. FLOW MEASUREMENTS AND VISUALIZATION

384B. Velocity

High-speed PIV analysis using compressed image correlation, J Fluids Eng **120**(3) 463-470 (Sep 1998), 1A1276
Determination of the sliding velocities in a non-Newtonian suspension using the Doppler ultrasound velocimetry, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 367-372 (Jun 1998), 3A1212
Development of a nearly omnidirectional velocity measurement pressure probe, AIAA J **36**(10) 1854-1860 (Oct 1998), 3A1213
Overestimation of the flow turbulence due to fringe distortion in LDA measurement volumes, Exp Fluids **25**(4) 371-374 (Sep 1998), 3A1214
Research on capacitance transducer of correlation flow measurement (Chinese), J China Univ Mining Tech **27**(3) 315-318 (1998), 3A1215
Particle image velocimetry system for microfluidics, Exp Fluids **25**(4) 316-319 (Sep 1998), 3A1219
Genetic algorithm particle pairing technique for 3D velocity field extraction in holographic particle image velocimetry, Exp Fluids **25**(5-6) 461-473 (Oct 1998), 5A1159
Experimental uncertainties associated with particle image velocimetry based vorticity algorithms, Exp Fluids **26**(1-2) 36-54 (Jan 1999), 6A1349
Little Book of Streamlines (Academic Press, San Diego CA, 1999) 8N25
Ultrasonic Doppler method for velocity profile measurement in fluid dynamics and fluid engineering., Exp Fluids **26**(3) 177-178 (Feb 1999), 8A1276
Measurement of cycle-to-cycle variations and cycle-resolved turbulence in an IC engine using a 3D particle tracking velocimetry, JSME Int J Ser B **41**(4) 991-1003 (Nov 1998), 8A1447
Fluid motion in ultrasonic flowmeter cavities, J Fluids Eng **121**(2) 422-426 (Jun 1999), 9A1304
Multiple disk probe for inexpensive and robust velocimetry, J Fluids Eng **121**(2) 446-449 (Jun 1999), 9A1305
Particle image velocimetry study of wing-tip vortices, J Aircraft **36**(2) 482-484 (Mar-Apr 1999), 9T1306
Molecular Tagging Velocimetry measurements in gas phase flows, Exp Fluids **26**(4) 297-304 (Mar 1999), 9A1308
New neural network for particle-tracking velocimetry, Exp Fluids **26**(4) 340-346 (Mar 1999), 9A1309
New tracking algorithm of PIV and removal of spurious vectors using Delaunay tessellation, Exp Fluids **26**(4) 371-380 (Mar 1999), 9A1310
Measurement, Instrumentation, and Sensors Handbook (CRC Press, Boca Raton FL, 1999) 10N9
Correction of hot-wire measurements in the near-wall region, Exp Fluids **26**(5) 475-477 (Apr 1999), 10A1232
Understanding biases in the near-field region of LDA two-point correlation measurements, Exp Fluids **26**(5) 381-388 (Apr 1999), 10A1289
Image processing for interferometric Mie and Rayleigh scattering velocity measurements, AIAA J **37**(6) 688-694 (Jun 1999), 11A1333
Laser doppler anemometer for in-flight velocity measurements on airplane wings, AIAA J **37**(6) 680-687 (Jun 1999), 11A1334
Planar doppler velocimetry: Three-component velocimetry in supersonic jets, AIAA J **37**(6) 700-707 (Jun 1999), 11A1335
Velocity measurements by modulated filtered Rayleigh scattering using diode lasers, AIAA J **37**(6) 695-699 (Jun 1999), 11A1336
Advanced Measurement Techniques (von Karman Inst, Rhode-St-Genese, Belgium, 1998) 12N25
Optical Velocity Measurements (von Karman Inst, Rhode-St-Genese, Belgium) 12N29
Macroturbulence measurements with electromagnetic and ultrasonic sensors: A comparison under high-turbulent flows, Exp Fluids **27**(1) 31-42 (Jun 1999), 12A1225

384D. Force and skin friction

Microfabricated shear stress sensors - Part 1: Design and fabrication, AIAA J **37**(1) 66-72 (Jan 1999), 7A1163
Microfabricated shear stress sensors - Part 2: Testing and calibration, AIAA J **37**(1) 73-78 (Jan 1999), 7A1164
Transducer for simultaneously measuring forces normal to and parallel to surfaces, J Trib **121**(2) 359-362 (Apr 1999), 8A921
Force measurements and flow visualization of circular and square cylinders in oscillatory flow, JSME Int J Ser B **41**(4) 796-805 (Nov 1998), 8A1025

Penalization method to take into account obstacles in incompressible viscous flows, Numer Math **81**(4) 497-520 (Feb 1999), 8A1049
Cavermod device: Force measurements, J Fluids Eng **121**(2) 312-317 (Jun 1999), 9A1286
Thirtieth Anniversary Symposium of the Japan Society of Fluid Mechanics held on July 31, 1998 at Kogakuin University in Tokyo, Fluid Dyn Res **24**(6) 315-404 (Jun 1999), 10A7

384E. Pressure

Identification of engine cylinder pressure from vibration signals by cepstral analysis (Chinese), J Huazhong Univ Sci Tech **26**(6) 79-81 (Jun 1998), 3A1216
Development of an array of pressure sensors with PVDF film, Exp Fluids **26**(1-2) 27-35 (Jan 1999), 6A1344
Laser photochromic velocimetry estimation of the vorticity and pressure field : 2D flow in a curved vessel, Exp Fluids **26**(1-2) 55-62 (Jan 1999), 6A1350
Computer-controlled pressure standard, J Fluids Eng **121**(1) 210-212 (Mar 1999), 7A1165
Miniature multihole pressure probes and their neural-network-based calibration, AIAA J **37**(6) 666-674 (Jun 1999), 11A1337
Seven-hole pressure probe calibration method utilizing look-up error tables, AIAA J **37**(6) 675-679 (Jun 1999), 11A1338
Polyvinylidene fluoride film sensors for measurement of unsteady pressures on aerodynamic surfaces - Part II: Application to a small-scale marine propeller in spatially distorted mean flow, Exp Fluids **27**(1) 85-91 (Jun 1999), 12A1238
Polyvinylidene fluoride film sensors for measurement of unsteady pressures on aerodynamic surfaces - Part I: Design, fabrication, calibration and demonstration, Exp Fluids **27**(1) 79-84 (Jun 1999), 12A1246

384F. Density

On-line measurements for layer densities of coated fuel particles (Chinese), J Tsinghua Univ Sci Tech **38**(7) 11-14 (Jul 1998), 6A1345
Velocity measurements by modulated filtered Rayleigh scattering using diode lasers, AIAA J **37**(6) 695-699 (Jun 1999), 11A1336

384G. Concentration

Limitations of temperature measurements with holographic interferometry in the presence of pressure variations, Exp Thermal Fluid Sci **17**(4) 294-308 (Aug 1998), 1A1277
Measurement and application of an infrared image restoration filter to improve the accuracy of surface temperature measurements of cubes, Exp Fluids **26**(1-2) 86-96 (Jan 1999), 6A1346
Whole field measurement of temperature in water using two-color laser induced fluorescence, Exp Fluids **26**(1-2) 7-15 (Jan 1999), 6A1347
Laser photochromic velocimetry estimation of the vorticity and pressure field : 2D flow in a curved vessel, Exp Fluids **26**(1-2) 55-62 (Jan 1999), 6A1350
Thin layer thermography: A new heat transfer measurement technique, Exp Fluids **26**(3) 257-265 (Feb 1999), 8A1327
Sensitivity study on double-sensor conductivity probe for the measurement of interfacial area concentration in bubbly flow, Int J Multiphase Flow **25**(1) 155-173 (Feb 1999), 9T1188

384H. Mass flow

Explicit equation for flow through American Society of Mechanical Engineers nozzle meters, AIAA J **36**(9) 1744-1746 (Sep 1998), 2T1268
Implementation of measuring signal sampling and real-time algorithm in Coriolis mass flowmeter (Chinese), J Huazhong Univ Sci Tech **26**(7) 77-79 (Jul 1998), 4A1300
Effect of flow pulsations on Coriolis mass flow meters, J Fluids Struct **12**(8) 1025-1039 (Nov 1998), 8T1277
New nondimensional parameters in fluid mechanics and their application to turbine flowmeter data analysis, J Eng Gas Turbines Power **121**(2) 249-253 (Apr 1999), 8A1278
Air bearing dynamics of sub-ambient pressure sliders during dynamic unload, J Trib **121**(3) 553-559 (Jul 1999), 12A1271
Fluid mass flow measurement using the momentum principle (Chinese), J Xi'an Jiaotong Univ **33**(6) 28-31 (1999), 12A1277

384I. Viscosity

New measurement and calibration method for viscosity of saturated liquid refrigerants (Chinese), J Tsinghua Univ Sci Tech **38**(7) 98-101 (Jul 1998), 6A1348
Measurement of biaxial elongational viscosity of polymer melts using lubricated squeezing flow method (Japanese), J Soc Mat Sci Japan **47**(12) 1296-1300 (Dec 1998), 7A1166
Viscosity measurement with laser-generated and detected shear waves, J Acoust Soc Am **105**(3) 1630-1637 (Mar 1999), 8A1279

384J. Flow direction, vorticity

Advanced Measurement Techniques (von Karman Inst, Rhode-St-Genese, Belgium, 1998) 12N25

384L. Flow visualization

Observation of pressure waves around a shallow cavity, J Sound Vib **214**(4) 771-778 (Jul 1998), 1A1184
Heat transfer gallery, J Heat Transfer **120**(3) 538-546 (Aug 1998), 1A1278
Visualization of a locally-forced separated flow over a backward facing step, Exp Fluids **25**(2) 133-142 (Jul 1998), 2A1172
Flowfield around ogive-elliptic-tip cylinder at high angle of attack, AIAA J **36**(10) 1778-1787 (Oct 1998), 3A1179
Effect of time-varying wake flow characteristics behind flat plates, AIAA J **36**(11) 2036-2043 (Nov 1998), 5A1147
Quantitative evaluation of flow computations by rainbow schlieren deflectometry, AIAA J **36**(11) 1953-1960 (Nov 1998), 5A1156
Unification of the streamline, heatline and massline methods for the visualization of 2D transport phenomena, Int J Heat Mass Transfer **42**(1) 27-33 (Jan 1999), 5A1157
Experimental study of flow and heat transfer in sinusoidal wavy passages, Int J Heat Mass Transfer **42**(9) 1541-1553 (May 1999), 7A1218
Large vortex formation-mechanism behind wedge under several separation conditions, JSME Int J Ser B **41**(4) 788-795 (Nov 1998), 8A1111
Buoyancy-driven exchange flow through double openings with having multi flow patterns, JSME Int J Ser B **41**(4) 781-787 (Nov 1998), 8T1280
Flow visualization using fluorescence from locally seeded I_2 excited by an ArF excimer laser, Exp Fluids **26**(4) 335-339 (Mar 1999), 9A1307
Fluid flow imaging by means of wide-band diffraction tomography, J Acoust Soc Am **105**(5) 2717-2721 (May 1999), 11A1339
Qualitative flow visualization using colored lights and reflective flakes, Phys Fluids **11**(7) 1702-1704 (Jul 1999), 12A1278

384M. Laser and other optical techniques

Isothermal experimental investigation of turbulence transport through an abrupt axisymmetric expansion, Proc Inst Mech Eng J Aerospace Eng **212**(G1) 45-55 (1998), 1A1177
Thickness variation of a liquid sheet formed by two impinging jets using holographic interferometry, J Fluids Eng **120**(3) 482-487 (Sep 1998), 1A1188
High-speed PIV analysis using compressed image correlation, J Fluids Eng **120**(3) 463-470 (Sep 1998), 1A1276
Limitations of temperature measurements with holographic interferometry in the presence of pressure variations, Exp Thermal Fluid Sci **17**(4) 294-308 (Aug 1998), 1A1277
Measurement and analysis of the flowfields induced by suction perforations, AIAA J **36**(9) 1553-1561 (Sep 1998), 2A1157
Application of rainbow schlieren deflectometry for concentration measurements in an axisymmetric helium jet, Exp Fluids **25**(2) 89-95 (Jul 1998), 2A1182
Development of the lateral effect photo diode technique to measure oil film thickness, Trib Trans **41**(3) 382-386 (Jul 1998), 2A1267
Laser Doppler velocimetry velocity bias in turbulent open channel flow, AIAA J **36**(8) 1544-1546 (Aug 1998), 2T1269
Determination of the sliding velocities in a non-Newtonian suspension using the Doppler ultrasound velocimetry, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **326**(6) 367-372 (Jun 1998), 3A1212
Two-color digital PIV employing a single CCD camera, Exp Fluids **25**(4) 320-328 (Sep 1998), 3A1217
Flow characteristics of a confined square jet with mixing tabs, Proc Inst Mech Eng J Aerospace Eng **212**(G2) 63-76 (1998), 4A1188
Quantitative evaluation of flow computations by rainbow schlieren deflectometry, AIAA J **36**(11) 1953-1960 (Nov 1998), 5A1156
Asymmetric autocorrelation function to resolve directional ambiguity in PIV images, Exp Fluids **25**(5-6) 401-408 (Oct 1998), 5A1158
Genetic algorithm particle pairing technique for 3D velocity field extraction in holographic particle image velocimetry, Exp Fluids **25**(5-6) 461-473 (Oct 1998), 5A1159
Dual hologram shearing interference technique with enhanced sensitivity for wind tunnel testing, Exp Fluids **25**(5-6) 519-521 (Oct 1998), 5A1160
Stereoscopic PIV: Validation and application to an isotropic turbulent flow, Exp Fluids **26**(1-2) 107-115 (Jan 1999), 6A1274
Whole field measurement of temperature in water using two-color laser induced fluorescence, Exp Fluids **26**(1-2) 7-15 (Jan 1999), 6A1347
Experimental uncertainties associated with particle image velocimetry based vorticity algorithms, Exp Fluids **26**(1-2) 36-54 (Jan 1999), 6A1349
Laser photochromic velocimetry estimation of the vorticity and pressure field : 2D flow in a curved vessel, Exp Fluids **26**(1-2) 55-62 (Jan 1999), 6A1350
New electrode-wire CT scanner for void distribution measurements, JSME Int J Ser B **42**(1) 16-21 (Feb 1999), 8A1098
High speed optical tomography system for quantitative measurement and visualization of dynamic features in a round jet, Exp Fluids **26**(3) 249-256 (Feb 1999), 8A1152
Molecular Tagging Velocimetry measurements in gas phase flows, Exp Fluids **26**(4) 297-304 (Mar 1999), 9A1308
New neural network for particle-tracking velocimetry, Exp Fluids **26**(4) 340-346 (Mar 1999), 9A1309
New tracking algorithm of PIV and removal of spurious vectors using Delaunay tessellation, Exp Fluids **26**(4) 371-380 (Mar 1999), 9A1310
Correction for pressure dependence of the refractive index in measurements of lubricant film thickness with image analysis, Proc Inst Mech Eng J: Eng Trib **213**(J2) 109-126 (1999), 10A1288
Understanding biases in the near-field region of LDA two-point correlation measurements, Exp Fluids **26**(5) 381-388 (Apr 1999), 10A1289
Structure of subsonic air wakes behind a flat plate, Exp Fluids **26**(5) 478-480 (Apr 1999), 10A1290
Laser doppler anemometer for in-flight velocity measurements on airplane wings, AIAA J **37**(6) 680-687 (Jun 1999), 11A1334
Planar doppler velocimetry: Three-component velocimetry in supersonic jets, AIAA J **37**(6) 700-707 (Jun 1999), 11A1335
Improved method for enhancing the resolution of conventional double-exposure single-frame particle image velocimetry, Exp Fluids **26**(6) 497-504 (May 1999), 11A1340
Iterative multigrid approach in PIV image processing with discrete window offset, Exp Fluids **26**(6) 513-523 (May 1999), 11A1341
Ozone tagging velocimetry using narrowband excimer lasers, AIAA J **37**(6) 708-714 (Jun 1999), 11A1342
Dynamic model for condition monitoring of a high-power CO_2 industrial laser, J Dyn Syst Meas Control **121**(2) 157-164 (Jun 1999), 12A1279

384Q. Wind and water tubes and tunnels

Plane multiple screens in non-uniform flow, with particular application to wind tunnel settling chamber screens, Eur J Mech B **17**(3) 357-369 (May-Jun 1998), 2A1270
Model calculations and wind tunnel testing of an isokinetic shroud for high-speed sampling, Aerosol Sci Tech **29**(4) 261-280 (Oct 1998), 3A1218
Quasi-2D method for the rotordynamic analysis of centered labyrinth liquid seals, J Eng Gas Turbines Power **121**(1) 144-152 (Jan 1999), 5A857
Dual hologram shearing interference technique with enhanced sensitivity for wind tunnel testing, Exp Fluids **25**(5-6) 519-521 (Oct 1998), 5A1160
Mean wind pressures on flat roof corners affected by parapets: Field and wind tunnel studies, Eng Struct **21**(7) 629-638 (Jul 1999), 7A1167

384V. Other problems and techniques

Methodology for determining experimental uncertainties in regressions, J Fluids Eng **120**(3) 445-456 (Sep 1998), 1A10
Particle image velocimetry via wavelet analysis, AIAA J **36**(8) 1451-1459 (Aug 1998), 2A104
Luminescent oil-film skin-friction meter, AIAA J **36**(8) 1460-1465 (Aug 1998), 2A1271
Overestimation of the flow turbulence due to fringe distortion in LDA measurement volumes, Exp Fluids **25**(4) 371-374 (Sep 1998), 3A1214
Two-color digital PIV employing a single CCD camera, Exp Fluids **25**(4) 320-328 (Sep 1998), 3A1217
Particle image velocimetry system for microfluidics, Exp Fluids **25**(4) 316-319 (Sep 1998), 3A1219
Accuracy of out-of-plane vorticity measurements derived from in-plane velocity field data, Exp Fluids **25**(5-6) 409-430 (Oct 1998), 5T1161
Direct measurement of circulation using ultrasound, Exp Fluids **25**(5-6) 445-454 (Oct 1998), 5A1162
Measurement and application of an infrared image restoration filter to improve the accuracy of surface temperature measurements of cubes, Exp Fluids **26**(1-2) 86-96 (Jan 1999), 6A1346
Analysis of impedance probes behavior applied to liquid film thickness measurements, J Brazilian Soc Mech Sci **20**(4) 486-505 (Dec 1998), 7A1168

VI. HEAT TRANSFER

400. THERMODYNAMICS

400B. Thermodynamics

Entropy generation in multicomponent reacting flows, J Energy Resources Tech **120**(3) 226-232 (Sep 1998), 1A1279
Thermodynamic optimization of a gas turbine power plant with pressure drop irreversibilities, J Energy Resources Tech **120**(3) 233-240 (Sep 1998), 1A1280
Using genetic algorithms and the exergonomic approach to optimize district heating networks, J Energy Resources Tech **120**(3) 241-246 (Sep 1998), 1A1281
Second law analysis for balanced heat exchangers with negligible pressure drop irreversibility, J Brazilian Soc Mech Sci **20**(2) 156-163 (Jun 1998), 1A1346
Second-law analysis on wavy plate fin-and-tube heat exchangers, J Heat Transfer **120**(3) 797-800 (Aug 1998), 1T1347
Study of thermodynamic performance of an integrated gasification combined cycle power plant, Proc Inst Mech Eng A **212**(A2) 89-95 (1998), 1A1401
Critical analysis of the thermodynamic advantages of reheat in gas turbines, Proc Inst Mech Eng A **212**(A2) 81-87 (1998), 1A1426
Thermodynamics: Principles and Practice (Prentice Hall, Upper Saddle River, NJ, 1997) 2R31
Thermodynamic analysis of a simple open-flow solar regenerator, Appl Thermal Eng **18**(12) 1359-1374 (Dec 1998), 2A1272
Thermodynamic properties and equations of state for fast reactor safety analysis - Part I: Analytic equation-of-state model, Nucl Eng Des **183**(3) 177-191 (Jul 1998), 2A1501
Thermodynamic properties and equations of state for fast reactor safety analysis - Part II: Properties of fast reactor materials, Nucl Eng Des **183**(3) 193-211 (Jul 1998), 2A1502
Blow-up rate for a system of heat equations completely coupled in the boundary conditions, Nonlinear Anal **35**(3) 389-398 (Feb 1999), 3T1220
Thermodynamics of viscoelastic fluids: The temperature equation, J Rheol **42**(5) 999-1019 (Sep-Oct 1998), 3A1221
Entropy generation due to laminar natural convection from a horizontal isothermal cylinder, J Heat Transfer **120**(4) 1089-1090 (Nov 1998), 4T1301
Ice cubes and hot water bottles, Nonlinear Stud **5**(2) 153-162 (1998), 4A1302
Optimal performance of steady flow irreversible heat engines, refrigerators and heat pumps (Chinese), J Shanghai Jiaotong Univ **32**(7) 1-4 (Jul 1998), 4A1303
Steady-state system in non-equilibrium thermodynamics including thermal and electrical effects, Math Methods Appl Sci **21**(15) 1399-1413 (Oct 1998), 4A1304
Thermodynamic relations along the principal Hugoniot, Shock Waves **8**(6) 361-366 (Dec 1998), 5T979
Thermodynamic optimization of a heat exchanger, Int J Heat Mass Transfer **42**(5) 951-959 (Mar 1999), 5A1163
Advanced Energy Systems Division - 1998 (ASME, New York, 1998) 6N36
Estimation of non-equilibrium parameters of post-dryout boiling processes of water, Int J Energy Res **23**(1) 41-49 (Jan 1999), 6A1351
International conference calorimetry experimental thermodynamics and thermal analysis held in Zakopane, Poland, September 8-13, 1997, J Thermal Anal Calorimetry **54**(1) 9-406 (1998), 6T1352
Criterion for predicting the possible advantage of adopting a suction-liquid heat exchanger in refrigerating system, Appl Thermal Eng **19**(4) 329-336 (Apr 1999), 7A1169
Exergy analysis of steam power and cogeneration plants, J Eng Appl Sci **45**(5) 791-809 (Oct 1998), 7A1170
Heat transfer in a disc-type DSC apparatus - IV: Applicability of the coupled cells model to periodic temperature modulation, J Thermal Anal Calorimetry **53**(3) 737-749 (1998), 7A1171

Second law analysis of a cycle regenerator in presence of longitudinal heat conduction in matrix, Heat and Mass Transfer Warme **34**(5) 395-403 (Feb 1999), 7A1172
Thermodynamics of polyvinylacetate from 0 to 350 K, J Thermal Anal Calorimetry **54**(3) 731-740 (1998), 7A1173
VII meeting GECAT; XIX Conference AICAT-GICAT - I Meeting HSTA, Universitat de les Illes Balears, Palma de Mallorca, Spain, June 24-28, 1997, J Thermal Anal Calorimetry **52**(3) 663-1075 (1998), 7T1206
Steam Power Engineering: Thermal and Hydraulic Design Principles (Cambridge UP, UK, 1999) 8N32
A to Z of Thermodynamics (Oxford UP, New York, 1998) 8N33
Non-equilibrium internal exchange of energy and matter and its Onsager's-type variational theory of relaxation, Int J Heat Mass Transfer **42**(14) 2695-2715 (Jul 1999), 8A1281
Analysis of a new thermodynamic cycle for combined power and cooling using low and mid temperature solar collectors, J Solar Energy Eng **121**(2) 91-97 (May 1999), 9A1311
Second-law analysis: Approaches and implications, Int J Energy Res **23**(5) 415-429 (Apr 1999), 9A1312
Sensitivity analysis of absorption cycle fluid thermodynamic properties, J Energy Resources Tech **121**(2) 137-142 (Jun 1999), 9A1313
27th International Vacuum Microbalance Techniques Conference: Lublin, Poland July 16-18, 1997, J Thermal Anal Calorimetry **55**(2) 335-705 (1999), 10T465
Entropy generation in a heat pipe system, Appl Thermal Eng **19**(10) 1027-1043 (Oct 1999), 11A1343
Single-effect thermal vapor-compression desalination process: Thermal analysis, Heat Transfer Eng **20**(2) 52-68 (Apr-Jun 1999), 11A1344
Thermodynamic modeling of absorption chiller and comparison with experiments, Heat Transfer Eng **20**(2) 42-51 (Apr-Jun 1999), 11A1345
Intelligent computer aided optimization of power and energy systems, Proc Inst Mech Eng A **213**(A1) 1-6 (1999), 11A1503
Thermal Physics (Cambridge UP, New York, 1999) 12R31
Graphical exergy study on single stage absorption heat transformer, Appl Thermal Eng **19**(11) 1191-1206 (Nov 1999), 12A1280
Morphology, stability, and morphogenesis of dipole aggregates, Proc Estonian Acad Sci Eng **5**(2) 131-141 (Jun 1999), 12A1281
Thermodynamic advantages of using solar energy in the regenerative Rankine power plant, Appl Thermal Eng **19**(11) 1173-1180 (Nov 1999), 12A1282

400E. Statistical mechanics

Statistical mechanics of a dissipative dynamical system with small noise, Physica D **122**(1-4) 105-116 (Nov 1998), 3A1222
Thermal Physics (Cambridge UP, New York, 1999) 12R31

400L. Thermodynamic properties of matter

Sensitivity analysis for thermophysical property measurements using the periodic method, J Heat Transfer **120**(3) 568-576 (Aug 1998), 1A1282
Thermal diffusivity determination of high-temperature levitated oblate spheroidal specimen by a flash method, J Heat Transfer **120**(3) 777-781 (Aug 1998), 1T1283
Thermal diffusion of dilute polymer solutions, Rheol Acta **37**(4) 406-413 (Aug 1998), 3A1012
Simple formulas for thermophysical properties of liquid water for heat transfer calculations (from 0°C to 150°C), Heat Transfer Eng **19**(3) 87-101 (Jul-Sep 1998), 3A1223
Size effects on the thermodynamic properties of thin solid films, J Heat Transfer **120**(4) 1078-1081 (Nov 1998), 4T1305
Gibbs thermodynamic potential of sea ice, Cold Regions Sci Tech **28**(2) 83-142 (Oct 1998), 5T1535
International conference calorimetry experimental thermodynamics and thermal analysis held in Zakopane, Poland, September 8-13, 1997, J Thermal Anal Calorimetry **54**(1) 9-406 (1998), 6T1352
Thermodynamics of Critical Phenomena: New Analysis of the Evaluation of Properties (Begell House, New York, 1998) 7R29
Accounting for penetration of laser heating in flash thermal diffusivity experiments, J Heat Transfer **121**(1) 15-21 (Feb 1999), 7A1174
Computation of heat capacities of solids using a general Tarasov equation, J Thermal Anal Calorimetry **52**(2) 631-656 (1998), 7A1175
Determination of specific heats using isothermal microcalorimetry, J Thermal Anal Calorimetry **53**(3) 685-695 (1998), 7A1176
Effective thermal conductivity of a multi-phase system, J Thermal Anal Calorimetry **51**(2) 349-360 (1998), 7A1177
Estimation of the thermodynamic properties of unbranched hydrocarbons, J Energy Resources Tech **121**(1) 45-50 (Mar 1999), 7A1178
New equation computes the pseudo-critical temperature and pressure for natural gases, J Eng Appl Sci **45**(5) 857-864 (Oct 1998), 7A1179
Non-dimensional size effects on the thermodynamic properties of solids, Int J Heat Mass Transfer **42**(11) 1991-2001 (Jun 1999), 7A1180
Refrigerant-oil mixtures: Saturation pressure and temperature (Spanish), Sci Eng J (Ciencia Eng) 7(2) 70-78 (Jul-Dec 1998), 7A1181
Reversible melting of semi-crystalline polymers: Frequency dependence of the reversible melting enthalpy, J Thermal Anal Calorimetry **52**(2) 293-313 (1998), 7A1182
Variation of Prandtl number of gas in dilute and dense state (Chinese), J Xi'an Jiaotong Univ **33**(1) 77-80 (1999), 7A1183
28th Conference on calorimetry and thermal analysis, Dunkirk, France, May 27-30, 1997, J Thermal Anal Calorimetry **51**(3) 737-1048 (1998), 7T1184
VII meeting GECAT; XIX Conference AICAT-GICAT - I Meeting HSTA, Universitat de les Illes Balears, Palma de Mallorca, Spain, June 24-28, 1997, J Thermal Anal Calorimetry **52**(3) 663-1075 (1998), 7T1206
Measurement of the thermal diffusivity of thin materials using an infrared thermal wave imaging technique, Heat Transfer Asian Res **28**(2) 89-94 (1999), 8A1354
Diagnosis of DI diesel combustion from in-cylinder pressure signal by estimation of mean thermodynamic properties of the gas, Appl Thermal Eng **19**(5) 513-529 (May 1999), 8A1444
Numerical prediction of the effective thermal conductivity of dendritic mushy zones, Model Simulation Mat Sci Eng **7**(1) 59-70 (Jan 1999), 9A1314
Measuring thermal conductivity of fluids containing oxide nanoparticles, J Heat Transfer **121**(2) 280-289 (May 1999), 9A1391
27th International Vacuum Microbalance Techniques Conference: Lublin, Poland July 16-18, 1997, J Thermal Anal Calorimetry **55**(2) 335-705 (1999), 10T465
Estimation of the temperature-dependent thermal conductivity in inverse heat conduction problems, Appl Math Model **23**(6) 469-478 (Jun 1999), 11A1346

400S. Temperature measurement and calorimetry

Measurement of specimen surface temperature in high-speed tension and torsion tests, Int J Impact Eng **21**(6) 473-488 (Jul 1998), 1A1284
Transport enhancement in acoustically excited cavity flows - Part 2: Reactive flow diagnostics, AIAA J **36**(9) 1568-1574 (Sep 1998), 2A452
Fast-response total temperature probe for unsteady compressible flows, J Eng Gas Turbines Power **120**(4) 694-702 (Oct 1998), 2A1273
Influence of the fractal scanning path on the temperature field of the layer in material increase manufacturing (Chinese), J Huazhong Univ Sci Tech **26**(8) 32-34 (Aug 1998), 4A1306
Correction of ambient temperature measurement by thermocouple, Exp Heat Transfer **11**(4) 299-315 (Oct-Dec 1998), 5A1164
In situ thermocouples in macro-components fabricated using SALD and SALDVI techniques - I: Thermochemical modeling, Mat Manuf Processes **13**(6) 859-882 (1998), 5T1165
In situ thermocouples in macro-components fabricated using SALD and SALDVI techniques - III: Fabrication and properties of the SiC/C thermocouple device, Mat Manuf Processes **13**(6) 909-919 (1998), 5T1166
Uncertainty estimates for temperature-sensitive paint measurements with charge-coupled device cameras, AIAA J **36**(11) 2102-2108 (Nov 1998), 5A1167
Transient liquid crystal thermometry of microfabricated PCR vessel arrays, J Microelectromechanical Syst **7**(4) 345-355 (Dec 1998), 6T839
International conference calorimetry experimental thermodynamics and thermal analysis held in Zakopane, Poland, September 8-13, 1997, J Thermal Anal Calorimetry **54**(1) 9-406 (1998), 6T1352
Determination of specific heats using isothermal microcalorimetry, J Thermal Anal Calorimetry **53**(3) 685-695 (1998), 7A1176
28th Conference on calorimetry and thermal analysis, Dunkirk, France, May 27-30, 1997, J Thermal Anal Calorimetry **51**(3) 737-1048 (1998), 7T1184
Calorimetric studies of the interactions between micelle-forming and bilayer-forming amphiphiles, J Thermal Anal Calorimetry **51**(1) 173-189 (1998), 7A1185
Critical thermodynamic analysis of differential scanning calorimetry for studying chemical kinetics, J Thermal Anal Calorimetry **51**(1) 205-218 (1998), 7A1186
DSC analysis of the state of water in surfactant-based microstructures, J Thermal Anal Calorimetry **51**(1) 135-149 (1998), 7A1187
DSC and TG study of water adsorption and desorption on zeolite NaA: Powder and attached as layer on metal, J Thermal Anal Calorimetry **53**(2) 449-466 (1998), 7A1188
DSC investigation of some testing and calibration compounds, particularly during cooling, J Thermal Anal Calorimetry **52**(1) 195-202 (1998), 7A1189
DSC investigations on a commercial photocuring sheet material, J Thermal Anal Calorimetry **52**(1) 125-130 (1998), 7A1190
Glass transition of water and aqueous systems, J Thermal Anal Calorimetry **52**(1) 109-113 (1998), 7A1191
Investigation of the plasticizing effect of dicarboxylic acid diesters on starch acetate, J Thermal Anal Calorimetry **52**(1) 157-164 (1998), 7A1192
Investigations of the sub-ambient transitions in frozen sucrose by modulated differential scanning calorimetry, J Thermal Anal Calorimetry **52**(1) 53-64 (5 1998), 7A1193
Modulated-temperature thermomechanical analysis, J Thermal Anal Calorimetry **51**(1) 231-236 (1998), 7A1194
New quantitative aspects in the field of precision calorimetry, J Thermal Anal Calorimetry **52**(1) 203-210 (1998), 7A1195
New type of high pressure system for a Tian-Calvet calorimeter, J Thermal Anal Calorimetry **53**(1) 3-10 (1998), 7A1196
Non-differential conduction calorimeter, a tool to study the after quench behavior in shape memory alloys, J Thermal Anal Calorimetry **53**(3) 671-683 (1998), 7A1197
Special publication of temperature-modulated differential scanning calorimetry, J Thermal Anal Calorimetry **54**(2) 411-704 (1998), 7A1198
Thermal analysis of aqueous micellar solutions: Study of some structural transitions and of solute-surfactant complexes, J Thermal Anal Calorimetry **51**(1) 161-171 (1998), 7A1199
Thermal analysis of phase transitions in microemulsions, J Thermal Anal Calorimetry **51**(1) 9-27 (1998), 7A1200
Thermal analysis of some environmentally degradable polymers, J Thermal Anal Calorimetry **52**(2) 261-274 (1998), 7A1201
Thermal behavior of blends of HDPE with long-chain branched HBPE, J Thermal Anal Calorimetry **52**(2) 275-292 (1998), 7A1202
Thermal behavior of emulsions studied by differential scanning calorimetry, J Thermal Anal Calorimetry **51**(1) 191-201 (1998), 7A1203
Thermal transitions and state of water in binary mixtures of water and n-decanephosphonic acid or its sodium salts, J Thermal Anal Calorimetry **51**(1) 105-114 (1998), 7A1204
Use of temperature- and humidity-dataloggers in food engineering, J Thermal Anal Calorimetry **52**(1) 45-52 (1998), 7A1205
VII meeting GECAT; XIX Conference AICAT-GICAT - I Meeting HSTA, Universitat de les Illes Balears, Palma de Mallorca, Spain, June 24-28, 1997, J Thermal Anal Calorimetry **52**(3) 663-1075 (1998), 7T1206
State diagrams of soy globulins, J Rheol **43**(2) 315-325 (Mar-Apr 1999), 8A969
Temperature measurement in the swirl chamber of an IDI engine using Moire deflectometry, Appl Thermal Eng **19**(5) 543-554 (May 1999), 8A1282
Application of high-order smooth local base-function to measuring 3D temperature field by holographic tomography, J Huazhong Univ Sci Tech **27**(1) 60-62 (Jan 1999), 9A1315
Crystallization kinetics of polypropylene-polyethylene-based copolymers, J Thermal Anal Calorimetry **55**(1) 57-65 (1999), 9A1316
Dependence of thermal stability of an engine lubricating oil on usage period, J Thermal Anal Calorimetry **55**(1) 109-114 (1999), 9A1317
Low-temperature automated adiabatic calorimeter: Heat capacities of high-purity graphite and polystytrene, J Thermal Anal Calorimetry **55**(1) 283-289 (1999), 9A1318
Analysis of the influence of the design parameters of the probe for the dew-point temperature measurements on its static and dynamic characteristics, Trans Inst Fluid-Flow Machinery **0**(104) 129-143 (1998), 10A1291
Analysis of the temperature-compensated anemometer, Appl Mech Eng **3**(3) 405-412 (1998), 10T1292
Application of the inverse coefficient problem in heat transfer and fluid flow, Arch Thermodyn **18**(3-4) 49-60 (1997), 10A1293
Influence of condensation on temperature measurements in the case of a dew point probe, Arch Thermodyn **19**(1-2) 87-101 (1998), 10A1294
Modified two-sensor-method for the measurement of high gas temperature facing surroundings with different surface temperatures, Combust Sci Tech **139**(1-6) 229-247 (Oct 1998), 10A1456
Model for the time response of solid-embedded thermocouples, Exp Mech **39**(2) 132-136 (Jun 1999), 11A836
Coherent Anti-stokes Raman scattering temperature measurements on an air-breathing ramjet model, AIAA J **37**(6) 744-750 (Jun 1999), 11A1347

402. ONE PHASE CONVECTION

402B. Forced convection (external)

Advances in Thermal Modeling of Electronic Components and Systems, Volume 4 (ASME, New York, 1998) 1N28
Application of a 3D heat flow model to treat laser drilling of carbon fiber composites, Acta Mat **46**(12) 4273-4285 (Jul 1998), 1A1285
Heat transfer in turbulent flow past a surface-mounted 2D rib, J Heat Transfer **120**(3) 724-734 (Aug 1998), 1A1286
Transient heat transfer from a particle with arbitrary shape and motion, J Heat Transfer **120**(3) 674-681 (Aug 1998), 1A1287
Heat and Mass Transfer (Springer-Verlag, Berlin, 1998) 2R29
Heat Transfer Essentials: A Textbook (Begell House, New York, 1998) 2R30
Heat transfer augmentation for air jet impinged on a rough surface, Appl Thermal Eng **18**(12) 1225-1241 (Dec 1998), 2A1274
Momentum and heat transfer from cylinders in laminar crossflow at $10^{-4} \le Re \le 200$, Int J Heat Mass Transfer **41**(22) 3409-3430 (Nov 1998), 3A1224
Pulsative heating of surfaces, Int J Heat Mass Transfer **41**(23) 3899-3918 (Dec 1998), 3A1225
Measurements of the temperature field in an axisymmetric thermal pure plume, Exp Heat Transfer **11**(3) 207-219 (Jul-Sep 1998), 3A1269
Enhancement of heat transfer in an inviscid-flow thermal boundary layer due to a Rankine vortex, Int J Heat Mass Transfer **41**(23) 3829-3840 (Dec 1998), 3A1324
Mass transfer from rotating circular cylinders in a submerged slot jet of air, Int J Heat Mass Transfer **41**(22) 3441-3450 (Nov 1998), 3A1352
Blowing-suction effect on non-Darcy forced convection flow about a flat plate with variable wall temperature in porous media, Acta Mech **131**(3-4) 255-265 (1998), 4A1151
Experimental investigation on the performances of airflow across tubes with uneven pitches (Chinese), J Huazhong Univ Sci Tech **26**(S1) 11-14 (May 1998), 4A1307
Fluid flow and heat transfer over a 3D spherical object in a pipe, J Heat Transfer **120**(4) 985-990 (Nov 1998), 4A1308
Numerical simulation on heat transfer and fluid flow characteristics of arrays with nonuniform plate length positioned obliquely to the flow direction, J Heat Transfer **120**(4) 991-998 (Nov 1998), 4A1309
Sensible heat transfer of subcooled falling films on horizontal tube (Chinese), J Shanghai Jiaotong Univ **32**(7) 70-74 (Jul 1998), 4A1310
Forced convection from a straight elliptical tube, Heat and Mass Transfer Warme **34**(2-3) 229-236 (Oct 1998), 5A1168
Heat transfer in a wall jet at high turbulence of cocurrent stream, Int J Heat Mass Transfer **42**(4) 599-612 (Feb 1999), 5A1169
Influence of the continuous phase Pe numbers on thermal wake phenomenon, Heat and Mass Transfer Warme **34**(2-3) 203-208 (Oct 1998), 5A1170
Heat Transfer Division - 1998, Volume 1: Heat Transfer in Flowing Systems (ASME, New York, 1998) 7N30
Mathematics of Heat Transfer (Oxford UP, New York, 1998) 7N34
Empirical investigation into the external heat transfer of a U-bend in cross-flow, Int J Heat Mass Transfer **42**(11) 1957-1968 (Jun 1999), 7A1207
Heat convection from a sphere placed in an oscillating free stream, Int J Heat Mass Transfer **42**(7) 1289-1304 (Apr 1999), 7A1208
Heat transfer characteristics of an axisymmetric jet impinging on the rib-roughened convex surface, Int J Heat Mass Transfer **42**(11) 2101-2110 (Jun 1999), 7T1209
Heat transfer in a 3D turbulent boundary layer with longitudinal vortices, Int J Heat Mass Transfer **42**(8) 1521-1534 (Apr 1999), 7A1210
Numerical study of turbulent heat transfer in confined and unconfined impinging jets, Int J Heat Fluid Flow **20**(1) 1-9 (Feb 1999), 7A1211
Prediction of heat transfer in turbulent, transpired boundary layers, J Heat Transfer **121**(1) 186-190 (Feb 1999), 7A1212
Turbulent heat transfer from a convex hemispherical surface to a round impinging jet, Int J Heat Mass Transfer **42**(6) 1147-1156 (Mar 1999), 7T1213
Wall effects on heat losses from hot-wires, Int J Heat Fluid Flow **20**(1) 34-47 (Feb 1999), 7A1214

Heat transfer from a horizontal wafer-based disk of multi-chip modules, Int J Heat Mass Transfer **42**(6) 1007-1022 (Mar 1999), 7A1405
Advances in Heat Transfer, Volume 32 (Academic Press, San Diego CA, 1999) 8N28
Advances in Heat Transfer, Volume 33 (Academic Press, San Diego CA, 1999) 8N29
Basic Heat and Mass Transfer, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N31
Experimental study of slot jet impingement cooling on concave surface: Effects of nozzle configuration and curvature, Int J Heat Mass Transfer **42**(12) 2199-2209 (Jun 1999), 8A1283
Film cooling effectiveness and mass-heat transfer coefficient downstream of one row of discrete holes, J Turbomachinery **121**(2) 225-232 (Apr 1999), 8A1284
Influence of flow velocity and fin spacing on the forced convective heat transfer from an annular-finned tube, JSME Int J Ser B **42**(1) 56-64 (Feb 1999), 8T1285
Influence of mainstream flow history on film cooling and heat transfer from two rows of simple and compound angle holes in combination, Int J Heat Fluid Flow **20**(2) 158-165 (Apr 1999), 8A1286
Influence of the hole length-to-diameter ratio on film cooling with cylindrical holes, J Turbomachinery **121**(2) 209-216 (Apr 1999), 8A1287
Investigation of detailed film cooling effectiveness and heat transfer distributions on a gas turbine airfoil, J Turbomachinery **121**(2) 233-242 (Apr 1999), 8A1288
Measurements of discharge coefficients in film cooling, J Turbomachinery **121**(2) 243-248 (Apr 1999), 8A1289
Numerical prediction of heat and momentum transfer over micro-grooved surface with a nonlinear k-ε model, Int J Heat Mass Transfer **42**(14) 2525-2541 (Jul 1999), 8A1290
Process intensification: Heat and mass transfer characteristics of liquid films on rotating discs, Int J Heat Mass Transfer **42**(14) 2543-2556 (Jul 1999), 8A1395
Circumferential variation of heat transfer on three circular cylinders cooled by a slot jet of air, Heat Tech **16**(2) 63-69 (1998), 9A1319
Comparative analysis of different models for the turbulent Prandtl number, J Heat Transfer **121**(2) 473-477 (May 1999), 9T1320
Experimental study on forced convection heat transfer from flush-mounted discrete heat sources, J Heat Transfer **121**(2) 326-332 (May 1999), 9A1321
Local and instantaneous heat transfer characteristics of arrays of pulsating jets, J Heat Transfer **121**(2) 341-348 (May 1999), 9A1322
Local Nusselt number at a cylinder cooled by a slot jet of water, Heat Tech **16**(2) 33-37 (1998), 9A1323
Liquid Cooling of Electronic Devices by Single-Phase Convection (Wiley, New York, 1999) 10R29
New approach for the study of turbulent boundary layers with blowing, Int J Heat Mass Transfer **42**(15) 2905-2920 (Aug 1999), 10A1180
Computational study of laminar flow and mass transfer around a surface-mounted obstacle, Int J Heat Mass Transfer **42**(15) 2849-2861 (Aug 1999), 10A1295
Non-Darcian forced convection heat transfer from a circular cylinder embedded in a packed bed of spherical particles, J Eng Appl Sci **45**(6) 923-942 (Dec 1998), 10A1296
Numerical model for heat and fluid flow in food freezing, Numer Heat Transfer A **35**(5) 495-517 (Apr 1999), 10A1297
Pulsed radial jet reattachment nozzle, Int J Heat Mass Transfer **42**(15) 2921-2933 (Aug 1999), 10A1298
Stagnation region heat transfer of a turbulent axisymmetric jet impingement, Exp Heat Transfer **12**(2) 137-156 (Apr-Jun 1999), 10A1299
Thermal boundary condition effects on forced convection heat transfer, Heat Transfer Asian Res **28**(3) 227-238 (1999), 10A1300
Heat transfer around a circular cylinder in separated air flow, Heat Transfer Asian Res **28**(3) 211-226 (1999), 10A1314
Thermal wakes measurement in electronic modules in the presence of heat transfer enhancement devices, Appl Thermal Eng **19**(10) 1081-1096 (Oct 1999), 11A1348
Effects of perpendicular flow entry on convective heat-mass transfer from pin-fin arrays, J Heat Transfer **121**(3) 668-674 (Aug 1999), 12A1283
Free jet impingement heat transfer of a high Prandtl number fluid under conditions of highly varying properties, J Heat Transfer **121**(3) 592-597 (Aug 1999), 12A1284
Modeling of heat transfer in thermoplastic composites manufacturing: Double-belt press lamination, Composites Part A Appl Sci and Manuf **30A**(8) 935-943 (1999), 12A1285
Selected papers from the Engineering Foundation Turbulent Heat Transfer 2 Conference, Manchester, June 1-4 1998, Int J Heat Fluid Flow **20**(3) 187-354 (Jun 1999), 12T1286
Thermal interaction between free convection and forced convection along a vertical conducting wall, Heat and Mass Transfer Warme **35**(1) 33-38 (May 1999), 12A1287
Thermal patterns on the smooth and rough walls in turbulent flows, Int J Heat Mass Transfer **42**(20) 3815-3829 (Oct 1999), 12A1288
Constructal trees of circular fins for conductive and convective heat transfer, Int J Heat Mass Transfer **42**(19) 3585-3597 (Oct 1999), 12A1397
Constructal trees of convective fins, J Heat Transfer **121**(3) 675-682 (Aug 1999), 12A1398

402C. Forced convection (internal)

Analytical model for turbulent compression-driven heat transfer, J Heat Transfer **120**(3) 617-623 (Aug 1998), 1A1288
Direct numerical simulation of 3D flow and augmented heat transfer in a grooved channel, J Heat Transfer **120**(3) 717-723 (Aug 1998), 1A1289
Effects of temperature-dependent viscosity variations and boundary conditions on fully developed laminar forced convection in a semicircular duct, J Heat Transfer **120**(3) 600-605 (Aug 1998), 1A1290
Forced convective liquid cooling of arrays of protruding heated elements mounted in a rectangular duct, J Electron Packaging **120**(3) 243-252 (Sep 1998), 1A1291
Heat transfer coefficient enhancement with perforated baffles, J Heat Transfer **120**(3) 795-797 (Aug 1998), 1T1292
Heat transfer-friction characteristic comparison in rectangular ducts with slit and solid ribs mounted on one wall, J Heat Transfer **120**(3) 709-716 (Aug 1998), 1A1293
Means to improve the heat transfer performance of air jet arrays where supply pressures are limiting, J Heat Transfer **120**(3) 787-789 (Aug 1998), 1T1294
Thermal transport phenomena in turbulent gas flow through a tube at high temperature difference and uniform wall temperature, J Heat Transfer **120**(3) 784-787 (Aug 1998), 1T1295
Two-dimensional modeling of heat transfer through sandwich plates with inhomogeneous boundary conditions on the faces, J Heat Transfer **120**(3) 606-616 (Aug 1998), 1A1296
Effect of channel orientation of local heat (mass) transfer distributions in a rotating two-pass square channel with smooth walls, J Heat Transfer **120**(3) 624-632 (Aug 1998), 1A1298
Conjugate heat transfer of a finned oval tube with a punched longitudinal vortex generator in form of a delta winglet: Parametric investigations of the winglet, Int J Heat Mass Transfer **41**(23) 3961-3978 (Dec 1998), 3A1226
Direct numerical simulation of a turbulent channel flow with a linear spanwise mean temperature gradient, Int J Heat Mass Transfer **41**(22) 3627-3634 (Nov 1998), 3A1227
Effects of surface roughness on forced convection and friction in triangular ducts, Exp Heat Transfer **11**(3) 241-253 (Jul-Sep 1998), 3A1228
Heat transfer and friction in small diameter channels, Microscale Thermophys Eng **2**(3) 189-202 (Jul-Aug 1998), 3A1229
Heat transfer enhancement in 3D corrugated channel flow, Int J Heat Mass Transfer **41**(22) 3559-3573 (Nov 1998), 3A1230
Mixing length model for strongly heated subsonic turbulent boundary layers, Int J Heat Mass Transfer **41**(22) 3373-3385 (Nov 1998), 3A1231
Simplified approach to solving conjugate heat transfer problems in annular and dissimilar parallel plate ducts, Int J Energy Res **22**(12) 1055-1064 (Oct 1998), 3A1232
Numerical simulation on convective heat transfer of fully developed laminar flow in wave-like fin tubes (Chinese), J Xi'an Jiaotong Univ **32**(9) 51-55 (1998), 3A1322
Experimental study of coaxial double pipe air jets at different temperatures, Heat Transfer Japan Res **27**(6) 431-446 (1998), 4A1311
Oscillation-controlled heat-transport tube: Heat transfer coefficient in tubes in heating and cooling regions, Heat Transfer Japan Res **27**(6) 415-430 (1998), 4A1312
Optimization of heat transfer through finned dissipators cooled by laminar flow, Int J Heat Fluid Flow **19**(6) 644-654 (Dec 1998), 4A1384
Thermal and hydraulic performance of a rectangular duct with multiple V-shaped ribs, J Heat Transfer **120**(4) 1072-1077 (Nov 1998), 4A1386
Large-eddy simulation of turbulent flow over a 2D cavity with temperature fluctuations, Int J Heat Mass Transfer **42**(1) 49-59 (Jan 1999), 5A1083
2-D inverse method for simultaneous estimation of the inlet temperature and wall heat flux in a laminar circular duct flow, Numer Heat Transfer A **34**(7) 731-745 (Nov 1998), 5A1171
Comparison of low Reynolds number k ε models in simulation of momentum and heat transport under high free stream turbulence, Int J Heat Mass Transfer **42**(4) 723-737 (Feb 1999), 5A1172
Effects of inlet turbulence on the development of fluid flow and heat transfer in a helically coiled pipe, Int J Heat Mass Transfer **42**(4) 739-751 (Feb 1999), 5A1173
Heat and momentum transfer in fluids heated in tubes with turbulence generators at moderate Prandtl and Reynolds numbers, Int J Heat Mass Transfer **42**(4) 613-627 (Feb 1999), 5A1174
Heat transfer enhancement of a finned oval tube with punched longitudinal vortex generators in-line, Int J Heat Mass Transfer **41**(24) 4151-4166 (Dec 1998), 5A1175
Heat transfer optimization in finned annular ducts under laminar-flow conditions, Heat Transfer Eng **19**(4) 42-54 (Oct-Dec 1998), 5A1176
Mean structure in the viscous layer of strongly-heated internal gas flows: Measurements, Int J Heat Mass Transfer **41**(24) 4297-4313 (Dec 1998), 5A1177
Modeling forced liquid convection in rectangular microchannels with electrokinetic effects, Int J Heat Mass Transfer **41**(24) 4229-4249 (Dec 1998), 5A1178
Numerical prediction for laminar forced convection heat transfer in parallel-plate channels with streamwise-periodic rod disturbances, Int J Numer Methods Fluids **28**(9) 1371-1387 (Dec 1998), 5A1179
Optimum profiles for asymmetrical longitudinal fins in cylindrical ducts, Int J Heat Mass Transfer **42**(3) 511-523 (Feb 1999), 5A1180
Role of longitudinal diffusion in fully developed forced convective slug flow in a channel, Int J Heat Mass Transfer **41**(24) 4375-4377 (Dec 1998), 5T1181
Simplified solution technique for some fluid flow and heat transfer problems, Int J Energy Res **22**(14) 1291-1298 (Nov 1998), 5A1182
Correlation of fully developed heat transfer and pressure drop in a symmetrically grooved channel, J Heat Transfer **121**(1) 236-239 (Feb 1999), 7T1215
Experimental and numerical investigation of forced convective characteristics of arrays of channel mounted obstacles, J Heat Transfer **121**(1) 34-42 (Feb 1999), 7A1216
Experimental investigation of turbulent heat transfer and fluid flow in internally finned tubes, Int J Heat Mass Transfer **42**(7) 1343-1351 (Apr 1999), 7T1217
Experimental study of flow and heat transfer in sinusoidal wavy passages, Int J Heat Mass Transfer **42**(9) 1541-1553 (May 1999), 7A1218
Experimental study of heat transfer in reciprocating square duct fitted with ribs skewed to the flow, J Heat Transfer **121**(1) 232-236 (Feb 1999), 7T1219
Heat transfer and pressure loss characterization in a channel with discrete flush-mounted and protruding heat sources, Exp Heat Transfer **12**(1) 1-16 (Jan-Mar 1999), 7A1220
Heat transfer characteristics of pulsated turbulent pipe flow, Heat and Mass Transfer Warme **34**(5) 413-421 (Feb 1999), 7A1221
Heat transfer coefficient and friction factor correlations for the transitional flow regime in rib-roughened rectangular ducts, Int J Heat Mass Transfer **42**(9) 1597-1615 (May 1999), 7A1222
Heat transfer enhancement due to self-sustained oscillating transverse vortices in channels with periodically mounted rectangular bars, Int J Heat Mass Transfer **42**(11) 2053-2062 (Jun 1999), 7A1223
Heat transfer in turbulent pipe flow revisited: Similarity law for heat and momentum transport in low-Prandtl-number fluids, Int J Heat Mass Transfer **42**(8) 1535-1540 (Apr 1999), 7T1224
Heat transfer model for thermal fluctuations in a thin slider-disk air bearing, Int J Heat Mass Transfer **42**(10) 1791-1800 (May 1999), 7A1225
Measurements of heat transfer and fluid flow in a rectangular duct with alternate attached-detached rib-arrays, Int J Heat Mass Transfer **42**(11) 2071-2083 (Jun 1999), 7A1226
Role of the Brinkman number in analyzing flow transitions in microchannels, Int J Heat Mass Transfer **42**(10) 1813-1833 (May 1999), 7A1227
Three-dimensional simulation of laminar rectangular impinging jets, flow structure, and heat transfer, J Heat Transfer **121**(1) 50-56 (Feb 1999), 7A1228
Turbulence phenomena in the radio frequency induction plasma torch, Int J Heat Mass Transfer **42**(9) 1585-1595 (May 1999), 7A1229
Convective heat transfer in the entrance region of a vertical tube for water near the thermodynamic critical point, Int J Heat Mass Transfer **42**(7) 1177-1187 (Apr 1999), 7A1247
Heat transfer efficiency of metal honeycombs, Int J Heat Mass Transfer **42**(11) 2031-2040 (Jun 1999), 7A1372
Comparison of multicomponent fuel droplet vaporization experiments in forced convection with the Sirignano model, Exp Thermal Fluid Sci **18**(4) 282-290 (Dec 1998), 8T1086
45° round-corner rib heat transfer coefficient measurements in a square channel, J Turbomachinery **121**(2) 272-280 (Apr 1999), 8A1291
Combined forced and free convection with viscous dissipation in a vertical circular duct, Int J Heat Mass Transfer **42**(12) 2243-2253 (Jun 1999), 8A1292
Comparative study of thermal design correlations for turbulent flow in helical-enhanced tubes, Heat Transfer Eng **20**(1) 54-70 (Jan-Mar 1999), 8A1293
Convective film cooling over a representative turbine blade leading-edge, Int J Heat Mass Transfer **42**(12) 2269-2285 (Jun 1999), 8A1294
Developing convective heat transfer in deep rectangular microchannels, Int J Heat Fluid Flow **20**(2) 149-157 (Apr 1999), 8A1295
Experimental study on the relationship between velocity fluctuations and heat transfer in a turbulent air flow, J Turbomachinery **121**(2) 288-294 (Apr 1999), 8A1296
Heat transfer and pressure drop in pin-fin trapezoidal ducts, J Turbomachinery **121**(2) 264-271 (Apr 1999), 8A1297
Measurement of momentum and heat transport in the turbulent channel flow with embedded longitudinal vortices, Int J Heat Fluid Flow **20**(2) 128-141 (Apr 1999), 8A1298
Time-dependent calculation procedure for fully developed and developing flow and heat transfer in louvered fin geometries, Numer Heat Transfer A **35**(3) 225-249 (Feb 1999), 8A1299
Tutorial on the Rayleigh-Marangoni-Benard problem with multiple layers and side wall effects, Chaos **9**(1) 124-140 (Mar 1999), 8A1300
Heat transfer in a rotating cavity with a stationary stepped casing, J Turbomachinery **121**(2) 281-287 (Apr 1999), 8A1318
Heat transfer in a pipe under conditions of transient turbulent flow, Int J Heat Fluid Flow **20**(2) 115-127 (Apr 1999), 8A1320
Analysis of two-layered micro-channel heat sink concept in electronic cooling, Int J Heat Mass Transfer **42**(12) 2287-2292 (Jun 1999), 8A1381
Heat transfer in forced vibrated pipe with water laminar flow, Heat Tech **16**(2) 91-98 (1998), 9A1324
Numerical investigation of flow field and heat transfer in cross-corrugated ducts, J Heat Transfer **121**(2) 314-321 (May 1999), 9A1325
Swirling effects on laminarization of gas flow in a strongly heated tube, J Heat Transfer **121**(2) 307-313 (May 1999), 9A1326
Turbulent heat transport in a perturbed channel flow, J Heat Transfer **121**(2) 322-325 (May 1999), 9A1327
Experimental investigation of the Reynolds criterion for transition between the transition zone to complete turbulence in 3D internally finned tubes, Heat Transfer Asian Res **28**(3) 183-188 (1999), 10A1301
Heat transfer enhancement by a multilobe vortex generator in internally finned tubes, Numer Heat Transfer A **35**(5) 553-566 (Apr 1999), 10A1302
Heat transfer enhancement of turbulent duct flow by vortex generators attached to a large eddy break-up manipulator, Heat Transfer Asian Res **28**(3) 189-200 (1999), 10A1303
Heat transfer in a reciprocating duct fitted with transverse ribs, Exp Heat Transfer **12**(2) 95-115 (Apr-Jun 1999), 10A1304
Numerical evaluation of the Graetz series, Int J Heat Mass Transfer **42**(15) 3013-3017 (Aug 1999), 10T1305
Application of the k-ε model with variable Prandtl number to heat transfer computations in air flows, Heat and Mass Transfer Warme **34**(6) 503-508 (Apr 1999), 11A1349
Enhancement of convective heat transfer in rib-roughened rectangular ducts, J Enhanced Heat Transfer **6**(2-4) 89-103 (1999), 11A1350
Film cooling and heat transfer from a combination of two rows of simple and/or compound angle holes in inline and/or staggered configuration, Heat and Mass Transfer Warme **34**(6) 495-502 (Apr 1999), 11A1351
Numerical investigation of turbulent flow and heat transfer in internally finned tubes, J Enhanced Heat Transfer **6**(2-4) 105-119 (1999), 11A1352
Rapid computation of the exit temperature of hot combustion gases flowing inside chimneys, Appl Thermal Eng **19**(9) 969-990 (Sep 1999), 11A1353
Turbulence modeling experience in ducts with forced convection flow, Numer Heat Transfer A **35**(6) 629-654 (May 1999), 11A1354
Low Reynolds number two-equation k_θ-ε_θ model to predict thermal fields, Int J Heat Mass Transfer **42**(17) 3217-3230 (Sep 1999), 12A1209
Selected papers from the Engineering Foundation Turbulent Heat Transfer 2 Conference, Manchester, June 1-4 1998, Int J Heat Fluid Flow **20**(3) 187-354 (Jun 1999), 12T1286
Augmented heat transfer in a triangular duct by using multiple swirling jets, J Heat Transfer **121**(3) 683-690 (Aug 1999), 12A1289
Effect of streamwise vortices on the frost growth rate in developing laminar channel flows, Int J Heat Mass Transfer **42**(20) 3787-3802 (Oct 1999), 12A1290
Effects of viscous dissipation on laminar forced convection with axially periodic wall heat flux, Heat and Mass Transfer Warme **35**(1) 9-16 (May 1999), 12A1291
Experimental study on the local convection heat transfer from a wall-mounted cube in turbulent channel flow, J Heat Transfer **121**(3) 564-573 (Aug 1999), 12A1292
Experimental study on the pressure drop and heat transfer characteristics of tubes with internal wave-like longitudinal fins, Heat and Mass Transfer Warme **35**(1) 65-73 (May 1999), 12A1293

Heat and mass transfer problems for film cooling, J Heat Transfer **121**(3) 509-527 (Aug 1999), 12A1294

Improved modeling of turbulent forced convective heat transfer in straight ducts, J Heat Transfer **121**(3) 712-719 (Aug 1999), 12A1295

Non-isothermal laminar flow and heat transfer between disks corotating in a fixed enclosure, Int J Heat Mass Transfer **42**(17) 3291-3306 (Sep 1999), 12A1296

Numerical prediction of transitional features of turbulent forced gas flows in circular tubes with strong heating, J Heat Transfer **121**(3) 546-555 (Aug 1999), 12A1297

Turbulent heat transfer in a horizontal helically coiled tube, Heat Transfer Asian Res **28**(5) 395-403 (1999), 12A1298

Forced convection of a power-law fluid in a porous channel: Integral solutions, J Porous Media **2**(1) 59-70 (1999), 12A1328

Enhancement of liquid forced convection heat transfer in microchannels due to the release of dissolved noncondensables, Int J Heat Mass Transfer **42**(19) 3563-3573 (Oct 1999), 12A1400

Forced convection in microstructures for electronic equipment cooling, J Heat Transfer **121**(3) 639-645 (Aug 1999), 12A1415

402D. Natural convection (external)

Diffusion induced chaos in a closed loop thermosyphon, SIAM J Appl Math **58**(4) 1072-1093 (Aug 1998), 1A1297

Unsteady free convection flow in the stagnation-point region of a 3D body, Int J Heat Mass Transfer **41**(22) 3397-3408 (Nov 1998), 3A1233

Convection induced by residual-g and g-jitters in diffusion experiments, Int J Heat Mass Transfer **42**(1) 111-126 (Jan 1999), 5A1183

Limitation of boundary layer analyses for buoyant convection in stably stratified fluids, Numer Heat Transfer A **34**(6) 617-631 (Nov 1998), 5A1184

Onset of transition to turbulence in natural convection with gas along a vertical isotherm plane, Int J Heat Mass Transfer **41**(24) 4327-4340 (Dec 1998), 5A1185

Unsteady flow past an impulsively started vertical plate with heat and mass transfer, Heat and Mass Transfer Warme **34**(2-3) 187-193 (Oct 1998), 5A1186

Free convection boundary-layer flow of a micropolar fluid from a vertical flat plate, IMA J Appl Math **61**(2) 179-197 (Oct 1998), 6A1356

Heat Transfer Division - 1998, Volume 1: Heat Transfer in Flowing Systems (ASME, New York, 1998) 7N30

Time-Dependent Nonlinear Convection (Comput Mech, Billerica MA, 1998) 7N35

Application of a second-moment closure model to simulate the turbulent dispersion from an elevated line source, Heat and Mass Transfer Warme **34**(5) 429-436 (Feb 1999), 7A1230

Hydromagnetic 3D free convection on a vertical stretching surface with heat generation or absorption, Int J Heat Fluid Flow **20**(1) 84-92 (Feb 1999), 7A1231

Modeling natural convection from horizontal isothermal annular heat sinks, J Electron Packaging **121**(1) 44-49 (Mar 1999), 7A1232

Natural convective heat transfer from isothermal conic, Int J Heat Mass Transfer **42**(10) 1895-1907 (May 1999), 7A1233

Spectra and critical Grashof numbers for turbulent transition in a thermal plume, J Thermophys Heat Transfer **13**(1) 82-90 (Jan-Mar 1999), 7A1234

Suppressing free convection from a flat plate with poor conductor ribs, Int J Heat Mass Transfer **42**(11) 2041-2051 (Jun 1999), 7A1235

Effect of steady streamwise surface temperature variations on vertical free convection, Int J Heat Mass Transfer **42**(13) 2455-2464 (Jul 1999), 8A1301

Mixed convection flow in a lid-driven enclosure filled with a fluid-saturated porous medium, Int J Heat Mass Transfer **42**(13) 2465-2481 (Jul 1999), 8A1302

Numerical and experimental investigation of stability of natural convective flows within a horizontal annulus, J Fluid Mech **381** 27-61 (Feb 1999), 8A1303

Thermocapillary convection within short-duration pulse-heated liquid droplets, Numer Heat Transfer A **35**(3) 251-270 (Feb 1999), 8A1304

Thermodynamics of Atmospheres and Oceans (Academic Press, San Diego CA, 1999) 9R40

Velocity field measurements by LDV in free convection flow from horizontal heated disks, Heat Tech **16**(2) 47-55 (1998), 9A1328

Liquid Cooling of Electronic Devices by Single-Phase Convection (Wiley, New York, 1999) 10R29

Natural convection over a vertical wavy frustum of a cone, Int J Non-Linear Mech **34**(5) 925-934 (Sep 1999), 10A1306

Analysis of the transpiration cooling of a thin porous plate in a hot laminar convective flow, Eur J Mech B **18**(2) 245-260 (Mar-Apr 1999), 11A1355

Flow past an impulsively started vertical plate with variable surface temperature and mass flux, Heat and Mass Transfer Warme **34**(6) 487-493 (Apr 1999), 11A1356

Natural convection flow far from a horizontal plate, J Fluid Mech **387** 227-254 (May 1999), 11A1357

Natural convection over a non-isothermal vertical plate, Int J Heat Mass Transfer **42**(16) 3103-3112 (Aug 1999), 11A1358

Thermophoresis in natural convection with variable properties, Heat and Mass Transfer Warme **34**(6) 469-475 (Apr 1999), 11A1359

Thermal interaction between free convection and forced convection along a vertical conducting wall, Heat and Mass Transfer Warme **35**(1) 33-38 (May 1999), 12A1287

Free convection from a point source of heat, and heat transfer from spheres at small Grashof numbers, Int J Heat Mass Transfer **42**(20) 3849-3860 (Oct 1999), 12A1299

Laminar free convection of pure and saline water along a heated vertical plate, J Heat Transfer **121**(3) 719-722 (Aug 1999), 12T1300

Free convective boundary layer flow from a heated surface in a layered porous medium, J Porous Media **2**(1) 39-58 (1999), 12A1329

402E. Natural convection (enclosures)

Effect of channel orientation of local heat (mass) transfer distributions in a rotating two-pass square channel with smooth walls, J Heat Transfer **120**(3) 624-632 (Aug 1998), 1A1298

Free convection limits for pin-fin cooling, J Heat Transfer **120**(3) 633-640 (Aug 1998), 1A1299

Instability of convective cells and genesis of convective structures of different scale, J Fluid Mech **365** 1-22 (Jun 1998), 1A1300

Theoretical analysis of thermocapillary flow in cylindrical columns of high Prandtl number fluids, J Heat Transfer **120**(3) 758-764 (Aug 1998), 1A1301

Unsteady free convection flow over a vertical flat plate immersed in a porous medium, Fluid Dyn Res **23**(3) 153-160 (Sep 1998), 1A1302

Mass transfer effects on unsteady free convection Couette flow, Appl Mech Eng **3**(1) 163-169 (1998), 1T1385

Exact and approximate solutions to the double-diffusive Marangoni-Benard problem with cross-diffusive terms, J Fluid Mech **366** 109-133 (Jul 1998), 1A1389

Free-convection boundary-layer model for the centrifugal etching of an axisymmetric cavity, J Eng Math **34**(1-2) 181-200 (Jul 1998), 2A1275

Natural convection heat transfer between horizontal concentric rectangular pipes, Heat Transfer Japan Res **27**(4) 271-283 (1998), 2A1276

Natural convection in partially cooled tilted cavities, Int J Numer Methods Fluids **28**(3) 477-499 (Sep 1998), 2A1277

Study of the heat transfer characteristics for a horizontal dry storage system for LWR spent fuel assemblies, Heat Transfer Japan Res **27**(4) 284-298 (1998), 2A1278

Asymptotic solution of the problem of the free convection in a square porous cavity heated from below, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **321**(10) 401-406 (Nov 1995), 3A1234

Convection in a shallow rectangular cavity due to internal heat generation, Int J Heat Mass Transfer **41**(23) 3979-3987 (Dec 1998), 3A1235

Experimental analysis of a confined transitional plume with respect to subgrid-scale modeling, Int J Heat Mass Transfer **41**(23) 3989-4007 (Dec 1998), 3A1236

Free convection heat transfer from an isothermal wavy surface in a porous enclosure, Int J Numer Methods Fluids **28**(4) 633-661 (Sep 1998), 3A1237

Natural convection heat transfer phenomena near the surface covered by riblets, Proc Estonian Acad Sci Eng **4**(3) 189-198 (Sep 1998), 3A1238

Numerical and experimental study of transient turbulent natural convection in a horizontal cylindrical container, Int J Heat Mass Transfer **41**(22) 3635-3645 (Nov 1998), 3A1239

Physically-realizable benchmark problem in internal natural convection, Int J Heat Mass Transfer **41**(23) 3817-3828 (Dec 1998), 3A1240

Visualization of natural convection inside shallow solar stills, Exp Fluids **25**(4) 369-370 (Sep 1998), 3A1241

Free convection in a shallow annular cavity filled with a porous medium, J Porous Media **1**(3) 227-241 (1998), 3A1258

Perturbation of the input data of models used for the prediction of turbulent air flow in an enclosure, Numer Heat Transfer B **34**(2) 139-164 (Sep 1998), 3A1265

Effects of side-wall temperature on the flow pattern of Rayleigh-Benard cells in an enclosure, Heat Transfer Japan Res **27**(6) 462-471 (1998), 4A1313

Enhanced heat transfer rate measured for natural convection in liquid gallium in a cubical enclosure under a static magnetic field, J Heat Transfer **120**(4) 1027-1032 (Nov 1998), 4A1314

Flow and heat transfer due to natural convection in granular materials, Int J Non-Linear Mech **34**(2) 347-359 (Mar 1999), 4A1315

Fundamental issues and recent advancements in analysis of aircraft brake natural convective cooling, J Heat Transfer **120**(4) 840-857 (Nov 1998), 4A1316

Mechanical coupling of convective rolls in a high Prandtl number fluid, J Heat Transfer **120**(4) 1008-1018 (Nov 1998), 4A1317

Natural convection in a narrow horizontal annulus: The effects of thermal and hydrodynamic instabilities, J Heat Transfer **120**(4) 1019-1026 (Nov 1998), 4A1318

Effect of buoyancy forces on laminar convection with viscous dissipation in a vertical channel, Heat and Mass Transfer Warme **34**(2-3) 143-149 (Oct 1998), 5A1187

Flow driven by a hot wire immersed in a horizontal liquid layer, Int J Heat Mass Transfer **42**(1) 95-110 (Jan 1999), 5A1188

Heat transfer simulation in vertical cylindrical enclosures for supercritical Rayleigh number and arbitrary side-wall conductivity, Int J Heat Mass Transfer **42**(2) 323-343 (Jan 1999), 5A1189

Multiple and unsteady solutions for buoyancy driven flows in spherical annuli, Int J Heat Mass Transfer **41**(24) 4121-4138 (Dec 1998), 5A1190

Natural convection and entropy generation in a square cavity, Int J Energy Res **22**(14) 1275-1290 (Nov 1998), 5A1191

Natural convection driven in CO_2 near its critical point under terrestrial gravity conditions, Int J Heat Mass Transfer **42**(4) 771-774 (Feb 1999), 5T1192

Natural convection in a horizontal concentric cylindrical annulus: Oscillatory flow and transition to chaos, J Fluid Mech **375** 179-202 (Nov 1998), 5A1193

Natural convection in an enclosure with discrete protruding heat sources (Chinese), J Xi'an Jiaotong Univ **32**(11) 40-43 (1998), 5A1194

Transient behavior of vertical bouyancy layer in a stratified fluid, Int J Heat Mass Transfer **41**(24) 4393-4397 (Dec 1998), 5T1195

Transition and multiplicity of flows in natural convection in a narrow horizontal cylindrical annulus: Pr = 0.4, Int J Heat Mass Transfer **42**(4) 709-722 (Feb 1999), 5A1196

Two- and three-dimensional natural and mixed convection simulation using modular zonal models in buildings, Int J Heat Mass Transfer **42**(5) 923-940 (Mar 1999), 5A1197

Experimental study of heat transfer by laminar natural convection between an electrically-heated vertical plate and both Newtonian and non-Newtonian fluids, Int J Heat Mass Transfer **42**(4) 657-671 (Feb 1999), 5A1216

Numerical analysis of thermosolutal Marangoni and natural convection flows, Numer Heat Transfer A **34**(6) 633-652 (Nov 1998), 5A1347

Experimental study of natural convection heat transfer of air layers in vertical annuli under high Rayleigh number conditions, Heat Transfer Asian Res **28**(1) 50-57 (1998), 6A1353

Developing free convection in open-ended vertical eccentric annuli with isothermal boundaries, J Heat Transfer **121**(1) 63-72 (Feb 1999), 7A1236

Effects of property variations on natural convection in a square enclosure, J Heat Transfer **121**(1) 57-62 (Feb 1999), 7A1237

Experimental and numerical study of thermovibrational convection, J Thermophys Heat Transfer **13**(1) 161-164 (Jan-Mar 1999), 7T1238

Experimental Nusselt numbers for a cubical-cavity benchmark problem in natural convection, Int J Heat Mass Transfer **42**(11) 1979-1989 (Jun 1999), 7A1239

Heat transfer enhancement generated by the chimney effect in systems of vertical channels, J Heat Transfer **121**(1) 230-232 (Feb 1999), 7T1240

Natural convection from a horizontal cylinder in a rectangular cavity, Int J Heat Mass Transfer **42**(10) 1801-1811 (May 1999), 7A1241

Numerical investigation of 3D magnetoconvection in rectangular cavities, Int J Heat Mass Transfer **42**(6) 1111-1121 (Mar 1999), 7A1242

Numerical simulation of thermocapillary drop motion with internal circulation, Numer Heat Transfer A **35**(3) 291-309 (Feb 1999), 8A1036

Computation of turbulent buoyant flows in enclosures with low-Reynolds-number k-ω models, Int J Heat Fluid Flow **20**(2) 172-184 (Apr 1999), 8A1305

Natural convection in rectangular enclosures heated from one side and cooled from the ceiling, Int J Heat Mass Transfer **42**(13) 2345-2355 (Jul 1999), 8A1306

Natural convection inside 2D cavities: The Integral Transform Method, Commun Numer Methods Eng **15**(2) 113-125 (Feb 1999), 8A1307

Natural convection of a two-layer fluid in a side-heated cavity, Int J Heat Mass Transfer **42**(13) 2427-2437 (Jul 1999), 8A1308

Numerical and experimental study of thermal distribution inside air-conditioned automobile chamber, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 12-17 (Dec 1998), 8A1375

Closed-form solution of natural convection in a cavity partially filled with a porous medium (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 235-240 (Feb-Mar 1999), 9A1329

Coincidence of the linear and nonlinear stability bounds in a horizontal thermal convection problem, Int J Non-Linear Mech **34**(4) 603-613 (Jul 1999), 9A1330

Natural convection cooling of vertical rectangular channels in air considering radiation and wall conduction, J Electron Packaging **121**(2) 75-84 (Jun 1999), 9A1331

Numerical study on transient heat transfer and fluid flow of natural convection in an enclosure with a heat-generating conducting body, Numer Heat Transfer A **35**(4) 415-433 (Mar 1999), 9A1332

Integrated thermal analysis of natural convection air cooled electronic enclosure, J Electron Packaging **121**(2) 108-115 (Jun 1999), 9A1414

Prandtl number effects in convective turbulence, J Fluid Mech **383** 55-73 (Mar 1999), 10A1129

Effects of vertical fins on local heat transfer performance in a horizontal fluid layer, Int J Heat Mass Transfer **42**(15) 2897-2903 (Aug 1999), 10A1307

Magnetohydrodynamics transient free convection in open-ended vertical annuli, J Thermophys Heat Transfer **13**(2) 256-265 (Apr-Jun 1999), 10A1308

Numerical simulation of nonpenetrative turbulent thermal convection, Numer Heat Transfer A **35**(5) 451-466 (Apr 1999), 10A1309

Computation of flow and heat transfer problems in complex region (Chinese), J Xi'an Jiaotong Univ **33**(5) 29-32 (1999), 11A1360

Passive heat transfer augmentation in a cylindrical annulus utilizing multiple perturbations on the inner and outer cylinders, Numer Heat Transfer A **35**(6) 567-586 (May 1999), 11A1361

Treatment of the inlet boundary conditions in natural-convection flows in open-ended channels, Numer Heat Transfer B **35**(3) 317-345 (Apr-May 1999), 11A1362

Direct numerical simulation of natural convection between two infinite vertical differentially heated walls scaling laws and wall functions, Int J Heat Mass Transfer **42**(19) 3673-3693 (Oct 1999), 12A1301

Effect of surface radiation and partition resistance on natural convection heat transfer in a partitioned enclosure: An experimental study, J Heat Transfer **121**(3) 616-622 (Aug 1999), 12A1302

Experiments on chimney-enhanced free convection, J Heat Transfer **121**(3) 603-609 (Aug 1999), 12A1303

Numerical simulation of laminar natural convection in a horizontal concentric cylindrical annuli (Chinese), J Shanghai Jiaotong Univ **33**(3) 281-284 (Mar 1999), 12A1304

Plume dynamics in natural convection in a horizontal cylindrical annulus, J Heat Transfer **121**(3) 598-602 (Aug 1999), 12A1305

Prandtl number effect on bifurcation and dual solutions in natural convection in a horizontal annulus, Int J Heat Mass Transfer **42**(17) 3279-3290 (Sep 1999), 12A1306

Stability of multiple steady states of convection in laterally heated cavities, J Fluid Mech **388** 315-334 (Jun 1999), 12A1307

Three-dimensional numerical analysis of natural convective liquid cooling of a 3 × 3 heater array in rectangular enclosures, Int J Heat Mass Transfer **42**(17) 3231-3244 (Sep 1999), 12A1308

Natural convection due to heat and mass transfer in a composite system, Heat and Mass Transfer Warme **35**(1) 39-48 (May 1999), 12A1333

Combined natural convection and volumetric radiation in a horizontal annulus: Spectral and finite volume predictions, J Heat Transfer **121**(3) 610-615 (Aug 1999), 12A1383

402F. Thermally unstable configurations

Long-wavelength rotating convection between poorly conducting boundaries, SIAM J Appl Math **58**(4) 1338-1364 (Aug 1998), 1A1303

Neutrally stable wave motions in thermally stratified Poiseuille-Couette flow, J Austral Math Soc B **40**(1) 123-144 (Jul 1998), 1A1304

Thermal convection in a fluid layer sandwiched between two porous layers of different permeabilities, Acta Mech **130**(1-2) 81-93 (1998), 2A1279

Effect of gravity modulation on the onset of convection in a porous layer, J Porous Media **1**(3) 219-226 (1998), 3A1255

Experimental confirmation and analytical results of centrifugally-driven free convection in rotating porous media, J Porous Media **1**(3) 261-272 (1998), 3A1257

Effect of a uniform vertical magnetic field on the linear growth rates of steady Marangoni convection in a horizontal layer of conducting fluid, Int J Heat Mass Transfer **42**(3) 525-533 (Feb 1999), 5A1198

Flow transitions in laminar Rayleigh-Benard convection in a cubical cavity at moderate Rayleigh num-

bers, Int J Heat Mass Transfer **42**(4) 753-769 (Feb 1999), 5A1199
Oscillatory thermocapillary flows in open cylindrical containers induced by CO_2 laser heating, Int J Heat Mass Transfer **42**(3) 555-564 (Feb 1999), 5A1200
Convective instability of a horizontal binary mixture layer with Soret effect under transversal high frequency vibration, Int J Heat Mass Transfer **42**(3) 547-553 (Feb 1999), 5A1357
Buoyancy driven instability in a horizontal layer of electrically conducting fluid in the presence of a vertical magnetic field, Int J Heat Mass Transfer **42**(9) 1689-1706 (May 1999), 7A1243
Control of Marangoni-Benard convection, Int J Heat Mass Transfer **42**(7) 1327-1341 (Apr 1999), 7A1244
Effect of nongray gas radiation on thermal stability in carbon dioxide, J Thermophys Heat Transfer **13**(1) 25-32 (Jan-Mar 1999), 7A1245
Onset of free convection near the liquid-vapor critical point - Part I: Stationary initial state, Physica D **126**(1-2) 69-82 (Feb 1999), 7A1246
Two-layer thermal convection in miscible viscous fluids, J Fluid Mech **379** 223-253 (Jan 1999), 8A1012
Stability of the axisymmetric buoyant-capillary flows in a laterally heated liquid bridge, Phys Fluids **11**(3) 527-541 (Mar 1999), 8A1039
Exact solution to stationary onset of convection due to surface tension variation in a multicomponent fluid layer with interfacial deformation, Int J Heat Mass Transfer **42**(13) 2387-2398 (Jul 1999), 8A1309
Thermosolutal convection in the presence of both vertical and horizontal temperature gradients, J Appl Mech **66**(1) 181-196 (Mar 1999), 8A1310
Uniaxial exchange flows of two Bingham fluids in a cylindrical duct, IMA J Appl Math **61**(3) 237-266 (Dec 1998), 8A1319
Numerical study of the stability of natural convective flows in narrow horizontal annuli (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 119-124 (Jan 1999), 9A1333
Unconditional nonlinear exponential stability in the Benard problem for a mixture: Necessary and sufficient conditions, Rendiconti Lincei Matematica e Appl **IX**(3) 221-236 (1998), 9A1334
Marangoni instability of a layer of binary liquid in the presence of nonlinear Soret effect, Int J Heat Mass Transfer **42**(15) 3007-3011 (Aug 1999), 10T1310
Stability of thermally driven shear flows in long inclined cavities with end-to-end temperature difference, Int J Heat Mass Transfer **42**(15) 2811-2822 (Aug 1999), 10A1311
Interferometric study of Rayleigh-Benard convection using tomography with limited projection data, Exp Heat Transfer **12**(2) 117-136 (Apr-Jun 1999), 10A1324
Parametric excitation of thermoelectric instability in a liquid layer open to air, Int J Heat Mass Transfer **42**(16) 3159-3168 (Aug 1999), 11A1363
Takens-Bogdanov bifurcation on the hexagonal lattice for double-layer convection, Physica D **129**(3-4) 171-202 (May 1999), 11A1364
Onset of convective instabilities in cylindrical cavities heated from below - Part I: Pure thermal case, Phys Fluids **11**(8) 2078-2088 (Aug 1999), 12T1179
Onset of steady Benard-Marangoni convection in a two-layer system of conducting fluid in the presence of a uniform magnetic field, J Eng Math **35**(4) 385-404 (May 1999), 12A1228
Homoclinic orbit for convection in a fluid layer heated from below, Int J Heat Mass Transfer **42**(19) 3557-3561 (Oct 1999), 12A1309
Modeling of the quenching in cylindrical and annular reactors, Solar Energy **66**(2) 151-163 (Jun 1999), 12A1310
Rayleigh-Benard stability of a solidifying porous medium, Int J Heat Mass Transfer **42**(17) 3337-3350 (Sep 1999), 12A1311

402G. Combined natural and forced convection

Combined free and forced convection flow of water at 4°C from a vertical plate with variable temperature, Indian J Eng Mat Sci **5**(3) 124-126 (Jun 1998), 1A1305
Effect of turbulence on the heat transfer in closed gas-filled rotating annuli, J Turbomachinery **120**(4) 824-830 (Oct 1998), 2A1199
Mixed convection heat transfer and pressure drop correlations for tube-in-shell thermosyphon heat exchangers with uniform heat flux, J Solar Energy Eng **120**(4) 260-269 (Nov 1998), 2A1304
Effect of lateral thermal convection of freely falling liquid film flow, Int J Heat Mass Transfer **41**(23) 4031-4033 (Dec 1998), 3T1242
Effect of viscous dissipation on mixed convection in a vertical channel with boundary conditions of the third kind, Int J Heat Mass Transfer **41**(23) 3949-3959 (Dec 1998), 3A1243
Laminar mixed convection with viscous dissipation in a vertical channel, Int J Heat Mass Transfer **41**(22) 3501-3513 (Nov 1998), 3A1244
Turbulent mixed convective heat transfer in the entrance region of a curved pipe with uniform wall-temperature, Int J Heat Mass Transfer **41**(23) 3793-3805 (Dec 1998), 3A1245
Heat and Mass Transfer Australasia (Begell House, New York, 1998) 4N33
Basic considerations in combined buoyancy-induced and forced flow in a vertical open shaft, Numer Heat Transfer A **34**(5) 519-536 (Oct 1998), 4A1319
Mixed convection adjacent to a suddenly heated horizontal circular cylinder embedded in a porous medium, Transport Porous Media **32**(3) 329-355 (Sep 1998), 4A1320
Mixing structure of plane self-preserving buoyant turbulent plumes, J Heat Transfer **120**(4) 1033-1041 (Nov 1998), 4A1321
Transition from turbulent natural to turbulent forced convection, J Heat Transfer **120**(4) 1086-1089 (Nov 1998), 4T1322
Mixed convection flow of micropolar fluid over an isothermal plate with variable spin gradient viscosity, Acta Mech **131**(3-4) 139-151 (1998), 4A1325
Two- and three-dimensional natural and mixed convection simulation using modular zonal models in buildings, Int J Heat Mass Transfer **42**(5) 923-940 (Mar 1999), 5A1197
Combined convection in developing flow through a horizontal concentric annulus, Numer Heat Transfer A **34**(6) 673-685 (Nov 1998), 5A1201
Maximum density effect on laminar water pipe flow solidification, Int J Heat Mass Transfer **41**(24) 4251-4257 (Dec 1998), 5A1202
Mixed convention flow of a micropolar fluid over a stretching sheet, Heat and Mass Transfer Warme **34**(2-3) 213-219 (Oct 1998), 5A1203
Numerical study of magneto-fluid mechanic combined free-and-forced convection heat transfer, Int J Heat Mass Transfer **42**(3) 467-475 (Feb 1999), 5A1204
Similarity solutions of mixed convection heat and mass transfer in combined stagnation and rotation-induced flows over a rotating disk, Heat and Mass Transfer Warme **34**(2-3) 171-180 (Oct 1998), 5A1205
Upflow turbulent mixed convection heat transfer in vertical pipes, Int J Heat Mass Transfer **41**(24) 4037-4054 (Dec 1998), 5A1206
Large-eddy simulation of the combined convection around a heated rotating cylinder, Int J Heat Mass Transfer **42**(5) 941-949 (Mar 1999), 5A1212
Mixed convection heat and mass transfer in radially rotating rectangular ducts, Numer Heat Transfer A **34**(7) 747-767 (Nov 1998), 5A1213
Coupled heat and mass transfer in mixed convection about a vertical cylinder in a porous medium: The entire regime, Mech Res Commun **25**(6) 633-630 (Nov-Dec 1998), 5T1220
Effect of thermal buoyancy on the flow through a vertical channel with a built-in circular cylinder, Numer Heat Transfer A **34**(7) 769-789 (Nov 1998), 5A1229
Mixed convection heat transfer in a radially rotating square duct with radiation effects, Int J Heat Mass Transfer **42**(1) 35-47 (Jan 1999), 5A1286
Numerical and experimental study of mixed convection in a cavity (Chinese), J Tsinghua Univ Sci Tech **38**(8) 60-63 (Aug 1998), 6A1354
Numerical simulation of buoyancy-assisting, backward-facing step flow and heat transfer in a rectangular duct, Heat Transfer Asian Res **28**(1) 58-76 (1998), 6A1355
Numerical analysis of pulsed laser heating for the deformation of metals, Numer Heat Transfer A **34**(8) 791-804 (Dec 1998), 6A1364
Heat convection from a sphere placed in an oscillating free stream, Int J Heat Mass Transfer **42**(7) 1289-1304 (Apr 1999), 7A1208
Convective heat transfer in the entrance region of a vertical tube for water near the thermodynamic critical point, Int J Heat Mass Transfer **42**(7) 1177-1187 (Apr 1999), 7A1247
Effect of an oblique plate on the heat transfer enhancement of mixed convection over heated blocks in a horizontal channel, Int J Heat Mass Transfer **42**(7) 1217-1235 (Apr 1999), 7A1248
Interaction of low-velocity plane jets with buoyant convection adjacent to heated vertical surfaces, Numer Heat Transfer A **35**(1) 67-84 (Jan 1999), 7A1249
Laminar mixed convection correlations for an isothermal cylinder in cross flow at different angles of attack, Int J Heat Mass Transfer **42**(8) 1383-1388 (Apr 1999), 7A1250
Thermal stratification in a horizontal circular cylinder with external heat tracing, Numer Heat Transfer A **35**(1) 85-98 (Jan 1999), 7A1251
Transient response of protruding electronic modules exposed to horizontal cross flow, Int J Heat Fluid Flow **20**(1) 48-59 (Feb 1999), 7A1252
Adverse and favorable mixed convection heat transfer in a two-sided heated square channel, Exp Thermal Fluid Sci **18**(4) 314-322 (Dec 1998), 8T1311
Secondary flow and enhancement of heat transfer in horizontal parallel-plate and convergent channels heating from below, Int J Heat Mass Transfer **42**(14) 2629-2647 (Jul 1999), 8A1312
Thermal mixed convection induced locally by a step change in surface temperature in a Poiseuille flow in the framework of Triple Deck theory, Int J Heat Mass Transfer **42**(14) 2509-2524 (Jul 1999), 8A1313
Analysis of combined forced and free flow in a vertical channel with viscous dissipation and isothermal-isoflux boundary conditions, J Heat Transfer **121**(2) 349-356 (May 1999), 9A1335
Uniform transpiration effect on coupled heat and mass transfer in mixed convection about a vertical cylinder in porous media: The entire regime, J Chinese Soc Mech Eng **20**(1) 81-86 (Feb 1999), 9A1342
Applicability of uniform heat flux Nusselt number correlations to thermosyphon heat exchangers for solar water heaters, J Solar Energy Eng **121**(2) 85-90 (May 1999), 9A1398
Conjugate heat transfer analysis for the passive enhancement of electronic cooling through geometric modification in a mixed convection domain, Numer Heat Transfer A **35**(5) 519-535 (Apr 1999), 10A1312
Mixed convection heat and mass transfer in rectangular ducts rotating about a parallel axis, Int J Heat Mass Transfer **42**(15) 2955-2965 (Aug 1999), 10A1313
Choice of the reference temperature for fully-developed mixed convection in a vertical channel, Int J Heat Mass Transfer **42**(16) 3169-3181 (Aug 1999), 11A1365
Conjugate heat transfer in an inclined slab with an array of horizontal circular channels, Numer Heat Transfer A **35**(7) 779-796 (May 1999), 11A1366
Developing mixed convection in an inclined tube with circumferentially nonuniform heating at its outer surface, Numer Heat Transfer A **35**(6) 609-628 (May 1999), 11A1367
Turbulent heat transfer to near-critical water in a heated curved pipe under the conditions of mixed convection, Int J Heat Mass Transfer **42**(16) 3147-3158 (Aug 1999), 11A1368
Combined convection heat transfer in a channel with two ribs attached to one wall, Heat Transfer Asian Res **28**(5) 379-394 (1999), 12A1312
Effect of uncertainties in fluid properties on mixed convection laminar flow and heat transfer in a uniformly heated smooth tube, Numer Heat Transfer A **35**(8) 875-889 (Jun 1999), 12A1313
Heat transfer by fully developed flow and viscous heating in a vertical channel with prescribed wall heat fluxes, Int J Heat Mass Transfer **42**(20) 3873-3885 (Oct 1999), 12A1314
Transition of chaotic flow in a radially heated Taylor-Couette system, J Heat Transfer **121**(3) 574-582 (Aug 1999), 12A1320
Mixed convection in a horizontal porous duct with a sudden expansion and local heating from below, J Heat Transfer **121**(3) 653-661 (Aug 1999), 12A1332

402H. Separated flows

Effect of unsteady wake on detailed heat transfer coefficient and film effectiveness distributions for a gas turbine blade, J Turbomachinery **120**(4) 808-817 (Oct 1998), 2A1280
Predictions of turbulent heat transfer in an axisymmetric jet impinging on a heated pedestal, J Heat Transfer **121**(1) 43-49 (Feb 1999), 7A1253
Computational study of laminar flow and mass transfer around a surface-mounted obstacle, Int J Heat Mass Transfer **42**(15) 2849-2861 (Aug 1999), 10A1295
Heat transfer around a circular cylinder in separated air flow, Heat Transfer Asian Res **28**(3) 211-226 (1999), 10A1314
Heat transfer in a Benard-Karman vortex street in air and in water, Int J Heat Mass Transfer **42**(16) 3131-3136 (Aug 1999), 11A1369
Conditional analysis of turbulent heat transport in a quasi 2D wake interacting with a boundary layer, Int J Heat Mass Transfer **42**(18) 3481-3494 (Sep 1999), 12A1315
Numerical simulation of vortex shedding past a circular cylinder under the influence of buoyancy, Int J Heat Mass Transfer **42**(18) 3495-3507 (Sep 1999), 12A1316

402I. Rotating fluids or surfaces

Long-wavelength rotating convection between poorly conducting boundaries, SIAM J Appl Math **58**(4) 1338-1364 (Aug 1998), 1A1303
Vortices and Heat Transfer (Verlag Vieweg, Wiesbaden, 1998) 2N33
Effects of very high freestream turbulence on the jet-mainstream interaction in a film cooling flow, J Turbomachinery **120**(4) 785-790 (Oct 1998), 2A1200
Effect of squealer tip on rotor heat transfer and efficiency, J Turbomachinery **120**(4) 753-759 (Oct 1998), 2A1240
Prediction of the becalmed region for LP turbine profile design, J Turbomachinery **120**(4) 839-846 (Oct 1998), 2A1244
Aspects of vane cooling with high turbulence - Part I: Heat transfer, J Turbomachinery **120**(4) 768-776 (Oct 1998), 2A1246
Aspects of vane film cooling with high turbulence - Part II: Adiabatic effectiveness, J Turbomachinery **120**(4) 777-784 (Oct 1998), 2A1247
Free-convection boundary-layer model for the centrifugal etching of an axisymmetric cavity, J Eng Math **34**(1-2) 181-200 (Jul 1998), 2A1275
Heat transfer in a rotating cavity with a peripheral inflow and outflow of cooling air, J Turbomachinery **120**(4) 818-823 (Oct 1998), 2A1281
Experimental confirmation and analytical results of centrifugally-driven free convection in rotating porous media, J Porous Media **1**(3) 261-272 (1998), 3A1257
Impingement cooling in rotating two-pass rectangular channels, J Thermophys Heat Transfer **12**(4) 582-588 (Oct-Dec 1998), 4A1323
Local heat (mass) transfer in a rotating square channel with ejection holes, J Thermophys Heat Transfer **12**(4) 589-595 (Oct-Dec 1998), 4A1324
Similarity solutions of mixed convection heat and mass transfer in combined stagnation and rotation-induced flows over a rotating disk, Heat and Mass Transfer Warme **34**(2-3) 171-180 (Oct 1998), 5A1205
Development of secondary flow and convective heat transfer in isothermal and iso-flux rectangular ducts rotating about a parallel axis, Int J Heat Mass Transfer **42**(3) 497-510 (Feb 1999), 5A1207
Flow characteristics in a heated rotating straight pipe, Int J Heat Mass Transfer **41**(24) 4385-4392 (Dec 1998), 5T1208
Heat (mass) transfer between an impinging jet and a rotating disk, Heat and Mass Transfer Warme **34**(2-3) 195-201 (Oct 1998), 5A1209
Heat transfer in a rotating two-pass smooth passage with a 180° rectangular turn, Int J Heat Mass Transfer **42**(2) 231-247 (Jan 1999), 5A1210
Heat transfer on a film-cooled rotating blade using different turbulence models, Int J Heat Mass Transfer **42**(5) 789-802 (Mar 1999), 5A1211
Large-eddy simulation of the combined convection around a heated rotating cylinder, Int J Heat Mass Transfer **42**(5) 941-949 (Mar 1999), 5A1212
Mixed convection heat and mass transfer in radially rotating rectangular ducts, Numer Heat Transfer A **34**(7) 747-767 (Nov 1998), 5A1213
Rotation induced stabilization of air convection in a bottom heated diverging cylinder rotating about its own axis, Int J Heat Mass Transfer **41**(24) 4281-4295 (Dec 1998), 5A1214
Experimental study of double-diffusive convection in a rotating annulus with lateral heating, Int J Heat Mass Transfer **42**(5) 821-832 (Mar 1999), 5A1350
Convective Heat and Mass Transfer in an Insulated Trailing Swirl: Theory and Design of Vortex Equipment (Begell House, New York, 1998) 6R34
Detailed measurements of local heat transfer coefficients in turbulent flow through smooth and rib-roughened serpentine passages with a 108° sharp bend, Int J Heat Mass Transfer **42**(11) 1925-1934 (Jun 1999), 7A1254
Effect of periodic unsteady flow on aerodynamics and heat transfer on a curved surface, J Heat Transfer **121**(1) 22-33 (Feb 1999), 7A1255
Flow of a stratified fluid in a cylinder with a rotating lid, Int J Heat Fluid Flow **20**(1) 26-33 (Feb 1999), 7A1256
Gravitational and centrifugal buoyancy effects in curved square channels with conjugated boundary conditions, Int J Heat Mass Transfer **42**(11) 2015-2029 (Jun 1999), 7A1257
Heat convection from a cylinder performing steady rotation or rotary oscillation - Part I: Steady rotation, Heat and Mass Transfer Warme **34**(5) 365-373 (Feb 1999), 7A1258
Heat convection from a cylinder performing steady rotation or rotary oscillation - Part II: Rotary oscillation, Heat and Mass Transfer Warme **34**(5) 375-380 (Feb 1999), 7A1259
Heat transfer distributions on a cylinder with simulated thermal barrier coating spallation, J Thermophys Heat Transfer **13**(1) 76-81 (Jan-Mar 1999), 7A1260
Heat transport in rotating convection, Physica D **125**(3-4) 275-284 (Jan 1999), 7A1261
Instability and transition to turbulence in a curved square duct by temperature fluctuation measurements, Exp Heat Transfer **12**(1) 53-71 (Jan-Mar 1999), 7A1262
Single-phase heat transfer enhancement in a curved, rectangular channel subjected to concave heating, Int J Heat Mass Transfer **42**(7) 1255-1272 (Apr 1999), 7A1263
Measurement and calculation of nozzle guide vane end wall heat transfer, J Turbomachinery **121**(2) 184-190 (Apr 1999), 8A1249
Developing turbulent heat transfer in a 360° bend of square cross section, Heat Transfer Asian Res **28**(2) 77-88 (1999), 8A1314
Effect of high free-stream turbulence with large length scale on blade heat-mass transfer, J Turbomachinery **121**(2) 217-224 (Apr 1999), 8A1315
Effect on concave surface curvature on heat transfer from a fully developed round impinging jet, Int J

Heat Mass Transfer **42**(13) 2489-2497 (Jul 1999), 8T1316
Heat transfer in a "cover-plate" preswirl rotating-disk system, J Turbomachinery **121**(2) 249-256 (Apr 1999), 8A1317
Heat transfer in a rotating cavity with a stationary stepped casing, J Turbomachinery **121**(2) 281-287 (Apr 1999), 8A1318
Convection in a rapidly rotating system: The small inclination limit and its planetary applications, Planet Space Sci **47**(3-4) 451-467 (Mar-Apr 1999), 10A1315
Free convection over a vertical rotating cone with constant wall heat flux, Appl Mech Eng **3**(3) 451-464 (1998), 10A1316
Numerical simulation of fluid flow and heat transfer in a rotating cylindrical container with a counter-rotating disk at the fluid surface, Heat Transfer Asian Res **28**(3) 172-182 (1999), 10A1317
Instabilities of shear flows between two coaxial differentially rotating cones, Phys Fluids **11**(6) 1676-1678 (Jun 1999), 11T1309
Effect of unsteady wake with trailing edge coolant ejection on film cooling performance for a gas turbine blade, J Turbomachinery **121**(3) 448-455 (Jul 1999), 11A1370
Effects of bulk flow pulsations on film cooling from different length injection holes at different blowing ratios, J Turbomachinery **121**(3) 542-550 (Jul 1999), 11A1371
Local heat transfer measurements of an orthogonally rotating square duct with angled rib turbulators, Int J Heat Mass Transfer **42**(16) 3047-3056 (Aug 1999), 11A1372
Physics of hot crossflow ingestion in film cooling, J Turbomachinery **121**(3) 532-541 (Jul 1999), 11A1373
Effect of cross-sectional aspect ratio on turbulent heat transfer in an orthogonally rotating rectangular smooth duct, Int J Heat Mass Transfer **42**(20) 3803-3814 (Oct 1999), 12A1317
Heat transfer of compressed air flow in a spanwise rotating four-pass serpentine channel, J Heat Transfer **121**(3) 583-591 (Aug 1999), 12A1318
Heat-mass transfer characteristics in two-phase smooth channels with a sharp 180° turn, Int J Heat Mass Transfer **42**(20) 3757-3770 (Oct 1999), 12A1319
Transition of chaotic flow in a radially heated Taylor-Couette system, J Heat Transfer **121**(3) 574-582 (Aug 1999), 12A1320
Vortex motion influencing sphere heating: Reynolds analogy revisited, Int J Heat Mass Transfer **42**(18) 3529-3531 (Sep 1999), 12A1321
Numerical simulation and aeorthermal physics of leading edge film cooling, Proc Inst Mech Eng A **213**(A2) 103-118 (1999), 12A1337

402L. Non-Newtonian flows

Effect of a non-uniform basic temperature gradient on Rayleigh-Benard convection in a micropolar fluid, Int J Eng Sci **36**(11) 1183-1196 (Sep 1998), 2A1282
Evolution of laminar jets of Herschel-Bulkley fluids, Int J Heat Mass Transfer **41**(22) 3575-3588 (Nov 1998), 3A1246
Heat transfer mechanism for Newtonian and non-Newtonian fluids in 2:1 rectangular ducts, Int J Heat Mass Transfer **41**(23) 3841-3856 (Dec 1998), 3A1247
Macroscopic equations of non-Newtonian fluid flow and heat transfer in a porous media, J Porous Media **1**(3) 273-283 (1998), 3A1435
Mixed convection flow of micropolar fluid over an isothermal plate with variable spin gradient viscosity, Acta Mech **131**(3-4) 139-151 (1998), 4A1325
Effects of a transverse flows with variable viscosity in micropolar fluids, Heat and Mass Transfer Warme **34**(2-3) 91-99 (Oct 1998), 5A1215
Experimental study of heat transfer by laminar natural convection between an electrically-heated vertical plate and both Newtonian and non-Newtonian fluids, Int J Heat Mass Transfer **42**(4) 657-671 (Feb 1999), 5A1216
Heat transfer to a falling viscoelastic fluid film, Exp Heat Transfer **11**(4) 317-328 (Oct-Dec 1998), 5A1217
Free convection boundary-layer flow of a micropolar fluid from a vertical flat plate, IMA J Appl Math **61**(2) 179-197 (Oct 1998), 6A1356
Analysis of fluid flow and heat transfer in the melt conveying section of a single-screw extruder, Numer Heat Transfer A **35**(1) 25-47 (Jan 1999), 7A1264
Heat transfer in gravity-driven film flow of power-law fluids, Int J Heat Mass Transfer **42**(11) 2085-2099 (Jun 1999), 7A1265
Heat transfer to viscoplastic materials flowing laminarly in the entrance region of tubes, Int J Heat Fluid Flow **20**(1) 60-67 (Feb 1999), 7A1266
Uniaxial exchange flows of two Bingham fluids in a cylindrical duct, IMA J Appl Math **61**(3) 237-266 (Dec 1998), 8A1319
Combined Marangoni and natural convection in infinite horizontal layer of non-Newtonian power law fluids, Numer Heat Transfer A **35**(4) 393-413 (Mar 1999), 9A1336
Heat transfer behavior of a temperature-dependent non-Newtonian fluid with Reiner-Rivlin model in a 2:1 rectangular duct, Int J Heat Mass Transfer **42**(15) 2935-2942 (Aug 1999), 10A1318
Momentum and heat transfer in a power-law fluid with arbitrary injection-suction at a moving wall, Int J Heat Mass Transfer **42**(15) 2837-2847 (Aug 1999), 10A1319
Finite element approximation for the heat transfer in incompressible Oldroyd-B flows, J Brazilian Soc Mech Sci **21**(1) 29-40 (Mar 1999), 11A1374
Influence of surface mass flux on mixed convection in non-Newtonian fluids along a vertical plate in a porous medium, Appl Mech Eng **4**(1) 133-147 (1999), 11T1375
Stochastic modeling of nonisothermal flow during resin transfer molding, Int J Heat Mass Transfer **42**(16) 3057-3070 (Aug 1999), 11A1376
Laminar convective heat transfer of a Bingham plastic in a circular pipe with uniform wall heat flux: The Graetz problem extended, J Heat Transfer **121**(3) 556-563 (Aug 1999), 12A1322
Transfert thermique pour l'ecoulement en canalisation cylindrique de fluides a seuil: Cas du refroidissement a coefficient d'echange constant (French), Int J Heat Mass Transfer **42**(20) 3861-3871 (Oct 1999), 12A1323

402M. Liquid metal flows

Direct measurement of the stream-function in a quasi-2D liquid metal flow, Exp Fluids **25**(4) 298-304 (Sep 1998), 3A1248
Magnetohydrodynamic convection in molten gallium, J Fluid Mech **378** 97-118 (Jan 1999), 8A1211
Mass, momentum, and energy transport in a Molten pool when welding dissimilar metals, J Heat Transfer **121**(2) 451-461 (May 1999), 9A1337
Onset of Benard-Marangoni convection in a horizontal layer of fluid, Int J Eng Sci **37**(5) 643-662 (Apr 1999), 9A1338

402N. Chemical reactions

Numerical methods for treating disparate scales in high-speed reacting flows, Numer Heat Transfer B **34**(2) 165-189 (Sep 1998), 3A1249
Analysis of unsteady heat and mass transfer during the modified chemical vapor deposition process, J Heat Transfer **120**(4) 858-864 (Nov 1998), 4A1326
Comparison of hybrid and numerical techniques to model heat transfer in reverse flow reactors, Appl Thermal Eng **19**(10) 1045-1070 (Oct 1999), 11A1377

402O. Unsteady flows

Unsteady free convection flow in the stagnation-point region of a 3D body, Int J Heat Mass Transfer **41**(22) 3397-3408 (Nov 1998), 3A1233
Effect of injection hole length on film cooling with bulk flow pulsations, Int J Heat Mass Transfer **41**(22) 3515-3528 (Nov 1998), 3A1250
Transient analysis of internally heated tubular components with exponential thermal loading and external convection, Int J Heat Mass Transfer **41**(22) 3675-3678 (Nov 1998), 3T1251
International Symposium on Transient Convective Heat Transfer (Begell House, New York, 1997) 4N34
Analysis of unsteady heat and mass transfer during the modified chemical vapor deposition process, J Heat Transfer **120**(4) 858-864 (Nov 1998), 4A1326
Chaotic behavior of Rayleigh-Benard convection with shear flow: Comparison analysis of three components Lorenz model and five components model, Report Res Inst Appl Mech **43**(115) 1-56 (Sep 1997), 4A1327
Instability of single-phase natural circulation under double loop system, Chaos Solitons Fractals **9**(9) 1575-1585 (Sep 1998), 4A1328
Benchmark solution for unsteady state CFD problems, Numer Heat Transfer A **34**(6) 653-672 (Nov 1998), 5A1228
Evaluation of the instantaneous unsteady heat transfer in a rapid compression-expansion machine, Proc Inst Mech Eng A **212**(A5) 351-362 (1998), 6A1357
Time-Dependent Nonlinear Convection (Comput Mech, Billerica MA, 1998) 7N35
Heat transfer in a pipe under conditions of transient turbulent flow, Int J Heat Fluid Flow **20**(2) 115-127 (Apr 1999), 8A1320
Heat transfer in the thermally developing region for pulsating tube flow, Proc Estonian Acad Sci Eng **5**(1) 41-52 (Mar 1999), 8A1321
Numerical analysis of nonstationary thermal response characteristics for a fluid-structure interaction system, J Pressure Vessel Tech **121**(3) 276-282 (Aug 1999), 11A1618

402P. Transport mechanisms

Integral solutions of diffusion-controled dendrite tip growth, Int J Heat Mass Transfer **41**(23) 4025-4029 (Dec 1998), 3T1252
Numerical solution of the effect of vibration on melting of unfixed rectangular phase-change material under variable-gravity environment, Numer Heat Transfer A **34**(3) 257-278 (Aug 1998), 3A1253
Magnetohydrodynamic flow over a vertical stretching surface with suction and blowing, Heat and Mass Transfer Warme **34**(2-3) 121-125 (Oct 1998), 5A1092
Dynamic simulation of the vertical zone-melting crystal growth, Int J Heat Mass Transfer **41**(24) 4351-4373 (Dec 1998), 5A1218
Solidification inside a thick cylindrical mold: An experimental study, J Mat Processing Manuf Sci **6**(2) 105-121 (Oct 1997), 5A1273
Convective Heat and Mass Transfer in an Insulated Trailing Swirl: Theory and Design of Vortex Equipment (Begell House, New York, 1998) 6R34
Application of convection-diffusion equation to the analyses of contamination between batches in multi-products pipeline transport, Appl Math Mech **19**(8) 757-775 (Aug 1998), 6A1358
Numerical study on fluid flow and heat transfer in the thin liquid film involving a hydraulic jump, Heat Transfer Asian Res **28**(1) 18-33 (1998), 6A1359
Temperature distribution along stack in an acoustic-resonance tube: Discussions on advanced linearized theory, Heat Transfer Japan Res **27**(8) 551-567 (1998), 6A1360
Analysis of heat transfer in a chemical vapor deposition reactor: An eigenfunction expansion solution approach, Int J Heat Fluid Flow **20**(1) 74-83 (Feb 1999), 7A1267
Electroconvective heat transfer in a suspension of rod-like akageneite particle (β-FeOOH), Int J Heat Mass Transfer **42**(9) 1617-1632 (May 1999), 7A1268
Fluid flow and heat transfer in molten metal stirred by a circular inductor, Int J Heat Mass Transfer **42**(7) 1317-1326 (Apr 1999), 7A1269
Influence of gravity acceleration on macrosegregation and macrostructure during the unidirectional solidification of cast binary allows: A numerical investigation, Numer Heat Transfer A **35**(2) 173-189 (Feb 1999), 7A1283
Experimental and numerical studies of heat transfer from a liquid bath due to an impinging gas jet, J Heat Transfer **121**(2) 333-340 (May 1999), 9A1339
Conjugate heat transfer during two-phase solidification process in a continuously moving metal using average heat capacity method, Int J Heat Mass Transfer **42**(15) 2883-2895 (Aug 1999), 10A1320
Experiments on melting of slush ice in a horizontal cylindrical capsule, Int J Heat Mass Transfer **42**(15) 2981-2990 (Aug 1999), 10A1321
Cooling behavior of a vertical plate in a phase change material-water composite enclosure under pulsating heat load, Heat and Mass Transfer Warme **34**(6) 509-515 (Apr 1999), 11A1378
Freeze coating of a cylindrical object with a binary alloy, Heat Transfer Asian Res **28**(4) 239-254 (1999), 11A1379
Effect of buoyancy, susceptor motion, and conjugate transport in chemical vapor deposition systems, J Heat Transfer **121**(3) 757-761 (Aug 1999), 12T1324
Experimental investigation of the melting process in a rectangular enclosure, Int J Heat Mass Transfer **42**(19) 3659-3672 (Oct 1999), 12A1325
Molten droplet solidification and substrate remelting in microcasting - Part II: Parametric study and effect of dissimilar materials, Heat and Mass Transfer Warme **35**(1) 17-23 (May 1999), 12A1326

402S. Porous media

Unsteady free convection flow over a vertical flat plate immersed in a porous medium, Fluid Dyn Res **23**(3) 153-160 (Sep 1998), 1A1302
Thermal convection in a fluid layer sandwiched between two porous layers of different permeabilities, Acta Mech **130**(1-2) 81-93 (1998), 2A1279
Recent Advances in Problems of Flow and Transport in Porous Media (Kluwer, MA, 1998) 3N29
Asymptotic solution of the problem of the free convection in a square porous cavity heated from below, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **321**(10) 401-406 (Nov 1995), 3A1234
Free convection heat transfer from an isothermal wavy surface in a porous enclosure, Int J Numer Methods Fluids **28**(4) 633-661 (Sep 1998), 3A1237
Conjugate heat and mass transfer in convective drying of porous media, Numer Heat Transfer A **34**(2) 105-117 (Aug 1998), 3A1254
Effect of gravity modulation on the onset of convection in a porous layer, J Porous Media **1**(3) 219-226 (1998), 3A1255
Effect of thermal stratification on free convection in a fluid-saturated porous enclosure, Numer Heat Transfer A **34**(3) 343-356 (Aug 1998), 3A1256
Experimental confirmation and analytical results of centrifugally-driven free convection in rotating porous media, J Porous Media **1**(3) 261-272 (1998), 3A1257
Free convection in a shallow annular cavity filled with a porous medium, J Porous Media **1**(3) 227-241 (1998), 3A1258
Natural convection below a downward facing heated horizontal surface in a fluid-saturated porous medium, Numer Heat Transfer A **34**(3) 301-311 (Aug 1998), 3A1259
Theoretical investigation on gas flow through porous media due to large pressure gradients, J Porous Media **1**(3) 253-260 (1998), 3A1260
Turbulent phenomena in flow through porous media, J Porous Media **1**(3) 243-251 (1998), 3A1261
Macroscopic equations of non-Newtonian fluid flow and heat transfer in a porous media, J Porous Media **1**(3) 273-283 (1998), 3A1435
Experimental and theoretical studies of convective heat transfer in a cylindrical porous medium, Int J Heat Fluid Flow **19**(6) 629-635 (Dec 1998), 4A1329
Analytical characterization and conceptual assessment of solid and fluid temperature differentials in porous media, Int J Heat Mass Transfer **42**(3) 423-435 (Feb 1999), 5A1219
Coupled heat and mass transfer in mixed convection about a vertical cylinder in a porous medium: The entire regime, Mech Res Commun **25**(6) 633-630 (Nov-Dec 1998), 5T1220
Effect of radiation on free convection from a porous vertical plate, Int J Heat Mass Transfer **42**(1) 181-191 (Jan 1999), 5A1221
Effects of thermal dispersion and stratification on non-Darcy mixed convection from a vertical plate in a porous medium, Heat and Mass Transfer Warme **34**(2-3) 209-212 (Oct 1998), 5A1222
Forced convection of a power-law fluid in a porous channel: Numerical solutions, Heat and Mass Transfer Warme **34**(2-3) 221-228 (Oct 1998), 5A1223
Heat transfer in laminar flow in a concentric annulus with peripherally varying heat transfer, Int J Heat Mass Transfer **42**(3) 487-496 (Feb 1999), 5A1224
Natural convection in a porous layer bounded by impervious domains: From numerical approaches to experimental realization, Int J Heat Mass Transfer **42**(4) 581-597 (Feb 1999), 5A1225
Transient analysis of incompressible flow through a packed bed, Int J Heat Mass Transfer **41**(24) 4259-4279 (Dec 1998), 5A1226
Unsteady mixed convection boundary-layer flow on a vertical surface in a porous medium, Int J Heat Mass Transfer **42**(2) 357-372 (Jan 1999), 5A1227
Convective flows on reactive surfaces in porous media, Transport Porous Media **33**(3) 279-293 (Dec 1998), 5A1453
Effects of a random porosity model on heat transfer performance of porous media, Int J Heat Mass Transfer **42**(1) 13-25 (Jan 1999), 5A1455
Implications of the thermal equilibrium assumption for surrounding-driven steady conduction within a saturated porous medium layer, Int J Heat Mass Transfer **42**(3) 477-485 (Feb 1999), 5A1456
Nonsimilar solutions for mixed convection in non-Newtonian fluids along a vertical plate in a porous medium, Transport Porous Media **33**(3) 295-307 (Dec 1998), 5A1457
Numerical study of heat and mass transfer in an anisotropic porous enclosure due to constant heating and cooling, Numer Heat Transfer A **34**(8) 887-905 (Dec 1998), 6A1361
Darcy-Brinkman free convection from a heated horizontal surface, Numer Heat Transfer A **35**(2) 191-204 (Feb 1999), 7A1270
Experimental study for natural convective heat and mass transfer in porous media, J Hydrodyn **10**(4) 90-99 (1998), 7T1271
Forced convection heat transfer augmentation in a channel with a localized heat source using fibrous materials, J Electron Packaging **121**(1) 1-7 (Mar 1999), 7A1272
Free convection in oblique enclosures filled with a porous medium, Int J Heat Mass Transfer **42**(6) 1047-1057 (Mar 1999), 7A1273
Natural convection from a vertical cylinder in a thermally stratified porous medium, Heat and Mass Transfer Warme **34**(5) 423-428 (Feb 1999), 7A1274
Non-Darcy free convection along a nonisothermal vertical surface in a thermally stratified porous medium, Int J Eng Sci **37**(4) 477-495 (Mar 1999), 7A1275
Numerical investigation of buoyancy driven flow in a fluid saturated non-Darcian porous medium, Int J Heat Mass Transfer **42**(7) 1205-1215 (Apr 1999), 7A1276
Numerical simulation of forced convection heat transfer in porous plate channels using thermal equilibrium and nonthermal equilibrium models, Numer Heat Transfer A **35**(1) 99-113 (Jan 1999), 7A1277

Entropy generation in a rectangular packed duct with wall heat flux, Int J Heat Mass Transfer **42**(13) 2337-2344 (Jul 1999), 8A1322

Free convection boundary-layer flow along a vertical surface in a porous medium with Newtonian heating, Int J Heat Mass Transfer **42**(14) 2621-2627 (Jul 1999), 8A1323

Mixed convection in porous media between vertical concentric cylinders, Heat Transfer Asian Res **28**(2) 95-101 (1999), 8A1324

Pseudosteady-state natural convection inside spherical containers partially filled with a porous medium, Int J Heat Mass Transfer **42**(13) 2327-2336 (Jul 1999), 8A1325

Experimental analysis of unsteady heat and moisture transfer around a heated cylinder buried into a porous medium, Int J Heat Mass Transfer **42**(12) 2187-2198 (Jun 1999), 8A1402

Solutions of Luikov equations of heat and mass transfer in capillary porous bodies through matrix calculus: A new approach, Int J Heat Mass Transfer **42**(14) 2649-2660 (Jul 1999), 8A1404

Effect of anisotropy on transport phenomena in anisotropic porous media, Int J Heat Mass Transfer **42**(14) 2673-2681 (Jul 1999), 8A1470

Closed-form solution of natural convection in a cavity partially filled with a porous medium (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 235-240 (Feb-Mar 1999), 9A1329

Heat transfer analysis of non-Darcian flow in local thermal non-equilibrium, J Chinese Soc Mech Eng **20**(1) 75-80 (Feb 1999), 9A1340

Theoretical study, with experimental verification, of the temperature-dependent viscosity effect on the forced convection through a porous medium channel, J Heat Transfer **121**(2) 500-503 (May 1999), 9T1341

Uniform transpiration effect on coupled heat and mass transfer in mixed convection about a vertical cylinder in porous media: The entire regime, J Chinese Soc Mech Eng **20**(1) 81-86 (Feb 1999), 9A1342

Non-Darcian forced convection heat transfer from a circular cylinder embedded in a packed bed of spherical particles, J Eng Appl Sci **45**(6) 923-942 (Dec 1998), 10A1296

Natural convection and its fractal for liquid freezing in a vertical cavity filled with porous medium, Heat Transfer Asian Res **28**(3) 165-171 (1999), 10A1322

Analytical and numerical study of double-diffusive natural convection in a Brinkman porous layer (French), Int J Heat Mass Transfer **42**(15) 2991-3005 (Aug 1999), 10A1402

Comparative study of the Unified Finite Approach Exponential-Type Scheme and its application to natural convection in a porous cavity, Numer Heat Transfer B **35**(3) 347-367 (Apr-May 1999), 11A1380

Double-diffusive natural convection in a porous medium under constant heat and mass fluxes, Heat Transfer Asian Res **28**(4) 255-265 (1999), 11A1381

Natural convection and radiation heat transfer in a vertical porous layer with a hexagonal honeycomb core - Part 1: Numerical analysis, Heat Transfer Asian Res **28**(4) 278-294 (1999), 11A1382

Natural convection and radiation heat transfer in a vertical porous layer with a hexagonal honeycomb core - Part 2: Heat transfer experiment, Heat Transfer Asian Res **28**(4) 295-306 (1999), 11A1383

Onset of convection in a fluid-saturated rectangular box, bottom heated by constant flux, Phys Fluids **11**(6) 1673-1675 (Jun 1999), 11T1384

Electrochemical experimental method for natural convective heat and mass transfer in porous media, Heat Transfer Asian Res **28**(4) 266-277 (1999), 11A1521

Enhancement of heat and mass transfer in metal hydride beds with the addition of Al plates, Heat and Mass Transfer Warme **34**(6) 517-523 (Apr 1999), 11A1522

Boundary layer flows in a vertical porous enclosure induced by opposing buoyancy forces, Int J Heat Mass Transfer **42**(19) 3599-3608 (Oct 1999), 12A1327

Forced convection of a power-law fluid in a porous channel: Integral solutions, J Porous Media **2**(1) 59-70 (1999), 12A1328

Free convective boundary layer flow from a heated surface in a layered porous medium, J Porous Media **2**(1) 39-58 (1999), 12A1329

Improving the performance of double-pipe heat exchangers by using porous substrates, Int J Heat Mass Transfer **42**(19) 3609-3618 (Oct 1999), 12A1330

Local thermal nonequilibrium effects in forced convection in a porous medium channel: A conjugate problem, Int J Heat Mass Transfer **42**(17) 3245-3252 (Sep 1999), 12A1331

Mixed convection in a horizontal porous duct with a sudden expansion and local heating from below, J Heat Transfer **121**(3) 653-661 (Aug 1999), 12A1332

Natural convection due to heat and mass transfer in a composite system, Heat and Mass Transfer Warme **35**(1) 39-48 (May 1999), 12A1333

Packing size and shape effects on forced convection in large rectangular packed ducts with asymmetric heating, Int J Heat Mass Transfer **42**(17) 3267-3277 (Sep 1999), 12A1334

Transient cool-down of a porous medium in pulsating flow, Int J Heat Mass Transfer **42**(18) 3523-3527 (Sep 1999), 12A1335

Uniform transpiration effect on combined heat and mass transfer by natural convection over a cone in saturated porous media: Uniform wall temperature-concentration or heat-mass flux, Int J Heat Mass Transfer **42**(18) 3533-3537 (Sep 1999), 12T1336

Effects of anisotropy and boundary plates on the critical values of a porous medium heated from below, Int J Heat Mass Transfer **42**(18) 3419-3430 (Sep 1999), 12A1523

Finite element analysis of convection flow through a porous medium in a horizontal channel, Transport Porous Media **36**(1) 69-83 (Jul 1999), 12A1524

402Y. Computational techniques

Boundary layer heat transfer in a micropolar fluid over a flat plate with vectored surface mass transfer, Appl Mech Eng **3**(1) 25-37 (1998), 1T1306

Combined convection in power-law fluids along a vertical wedge embedded in a porous medium, Appl Mech Eng **2**(4) 457-473 (1997), 1T1307

Three-dimensional simulations by Marangoni-Benard convection in small containers by the least-squares FEM, Comput Methods Appl Mech Eng **160**(1-2) 71-88 (Jul 1998), 1A1308

Natural convection in partially cooled tilted cavities, Int J Numer Methods Fluids **28**(3) 477-499 (Sep 1998), 2A1277

Pulsative heating of surfaces, Int J Heat Mass Transfer **41**(23) 3899-3918 (Dec 1998), 3A1225

Free convection heat transfer from an isothermal wavy surface in a porous enclosure, Int J Numer Methods Fluids **28**(4) 633-661 (Sep 1998), 3A1237

Numerical methods for treating disparate scales in high-speed reacting flows, Numer Heat Transfer B **34**(2) 165-189 (Sep 1998), 3A1249

Efficient very-high-resolution scheme based on an adaptive-scheme strategy, Numer Heat Transfer B **34**(2) 191-213 (Sep 1998), 3A1262

Multilevel solution-adaptive differencing strategies for convective flows, Numer Heat Transfer A **34**(3) 279-299 (Aug 1998), 3A1263

New family of adaptive very high resolution schemes, Numer Heat Transfer B **34**(2) 215-239 (Sep 1998), 3A1264

Perturbation of the input data of models used for the prediction of turbulent air flow in an enclosure, Numer Heat Transfer B **34**(2) 139-164 (Sep 1998), 3A1265

Preconditioning techniques for the BiCGSTAB algorithm used in convection-diffusion problems, Numer Heat Transfer B **34**(2) 241-256 (Sep 1998), 3A1266

Reconstruction and advection of a moving interface in 3D on a fixed grid, Numer Heat Transfer B **34**(2) 121-138 (Sep 1998), 3A1267

Effect of contaminant properties and temperature gradients on the efficiency of transient gaseous contaminant removal from an enclosure: A numerical study, Int J Heat Mass Transfer **41**(22) 3589-3609 (Nov 1998), 3A1357

Numerical quenchback in thermofluid simulations of superconducting magnets, Int J Numer Methods Eng **43**(7) 1275-1293 (Dec 1998), 4A1330

Spectral domain decomposition technique for the incompressible Navier-Stokes equations, Numer Heat Transfer A **34**(5) 495-518 (Oct 1998), 4A1331

Symmetry breaking and fractal dependence on initial conditions in dynamical systems: Ordinary differential equations of thermal convection, Chaos Solitons Fractals **9**(10) 1723-1732 (Oct 1998), 4A1332

Thermal transport and flow in high-speed optical fiber drawing, J Heat Transfer **120**(4) 916-930 (Nov 1998), 4A1333

Conservative numerical scheme for the energy equation, J Heat Transfer **120**(4) 1081-1086 (Nov 1998), 4T1363

Pressure boundary conditions for a segregated approach to solving incompressible Navier-Stokes equations, Numer Heat Transfer B **34**(4) 457-467 (Dec 1998), 5A974

Adaptively refined quadtree grid method for incompressible flows, Numer Heat Transfer B **34**(4) 379-400 (Dec 1998), 5A1053

Numerical prediction for laminar forced convection heat transfer in parallel-plate channels with streamwise-periodic rod disturbances, Int J Numer Methods Fluids **28**(9) 1371-1387 (Dec 1998), 5A1179

Benchmark solution for unsteady state CFD problems, Numer Heat Transfer A **34**(6) 653-672 (Nov 1998), 5A1228

Effect of thermal buoyancy on the flow through a vertical channel with a built-in circular cylinder, Numer Heat Transfer A **34**(7) 769-789 (Nov 1998), 5A1229

Finite-element analysis of convection problems in spatially periodic domains, Numer Heat Transfer B **34**(4) 361-378 (Dec 1998), 5A1230

Study on convergence criteria for simple-based finite-volume algorithm, Numer Heat Transfer B **34**(4) 401-417 (Dec 1998), 5A1231

Review of solution methods for determining effectiveness-NTU relationships for heat exchangers with complex flow arrangements, Appl Mech Rev **52**(3) 97-117 (Mar 1999), 5A1297

Two- and three-dimensional numerical models of flow and heat transfer over louvred fin arrays in compact heat exchangers, Int J Heat Mass Transfer **41**(24) 4063-4080 (Dec 1998), 5A1298

Computational Methods for Solution of Inverse Problems in Mechanics (ASME, New York, 1998) 6N37

Numerical study on fluid flow and heat transfer in the thin liquid film involving a hydraulic jump, Heat Transfer Asian Res **28**(1) 18-33 (1998), 6A1359

Adaptive computations of turbulent forced convection, Numer Heat Transfer A **34**(8) 847-871 (Dec 1998), 6A1362

New version of simplet and its application to turbulent buoyancy-driven flows, Numer Heat Transfer A **34**(8) 821-846 (Dec 1998), 6A1363

Numerical analysis of pulsed laser heating for the deformation of metals, Numer Heat Transfer A **34**(8) 791-804 (Dec 1998), 6A1364

Heat Transfer Division - 1998, Volume 5: Numerical and Experimental Method in Heat Transfer (ASME, New York, 1998) 7N33

Simulation of free and forced convection incompressible flows using an adaptive parallel-vector FE procedure, Int J Numer Methods Fluids **29**(3) 289-309 (Feb 1999), 7A29

Comparative study of conservative and nonconservative interpolation schemes for the domain decomposition method on laminar incompressible flows, Numer Heat Transfer B **35**(1) 65-84 (Jan-Feb 1998), 7A1278

Four-point interpolation schemes for convective fluxes approximation, Numer Heat Transfer B **35**(1) 23-39 (Jan-Feb 1998), 7A1279

Generalized FE-harmonic analysis for nonlinear heat transfer, J Thermophys Heat Transfer **13**(1) 100-109 (Jan-Mar 1999), 7A1280

Heat transfer in a conjugate heat exchanger with a wavy fin surface, Int J Heat Mass Transfer **42**(10) 1735-1745 (May 1999), 7A1281

Heat transfer on a film-cooled blade: Effect of hole physics, Int J Heat Fluid Flow **20**(1) 10-25 (Feb 1999), 7A1282

Influence of gravity acceleration on macrosegregation and macrostructure during the unidirectional solidification of cast binary allows: A numerical investigation, Numer Heat Transfer A **35**(2) 173-189 (Feb 1999), 7A1283

Numerical study of oscillatory flow and heat transfer in a loaded thermoacoustic stack, Numer Heat Transfer A **35**(1) 49-65 (Jan 1999), 7A1362

Integral Transform Method in Thermal and Fluids Sciences and Engineering (Begell House, New York, 1998) 8R27

Numerical and experimental investigation of stability of natural convective flows within a horizontal annulus, J Fluid Mech **381** 27-61 (Feb 1999), 8A1303

Particular solution Trefftz method for nonlinear Poisson problems in heat and mass transfer, J Comput Phys **150**(1) 239-267 (Mar 1999), 8A1326

Advances in computational heat transfer, Int J Comput Fluid Dyn **11**(3-4) 193-362 (1999), 9A1343

Numerical modeling of conjugate heat transfer on complex geometries with diagonal Cartesian method - Part I: Methods, J Heat Transfer **121**(2) 253-260 (May 1999), 9A1344

Numerical modeling of conjugate heat transfer on complex geometries with diagonal Cartesian method - Part II: Applications, J Heat Transfer **121**(2) 261-267 (May 1999), 9A1345

Advanced Computational Methods in Heat Transfer V (Comput Mech, Billerica MA, 1998) 10N30

Numerical solutions of a nonlinear evolution system with small dissipation on parallel processors, J Sci Comput **13**(4) 405-417 (Dec 1998), 10A1323

Passive heat transfer augmentation in a cylindrical annulus utilizing multiple perturbations on the inner and outer cylinders, Numer Heat Transfer A **35**(6) 567-586 (May 1999), 11A1361

Treatment of the inlet boundary conditions in natural-convection flows in open-ended channels, Numer Heat Transfer B **35**(3) 317-345 (Apr-May 1999), 11A1362

Physics of hot crossflow ingestion in film cooling, J Turbomachinery **121**(3) 532-541 (Jul 1999), 11A1373

Comparative study of the Unified Finite Approach Exponential-Type Scheme and its application to natural convection in a porous cavity, Numer Heat Transfer B **35**(3) 347-367 (Apr-May 1999), 11A1380

Application of an all-speed flow algorithm to heat transfer problems, Numer Heat Transfer A **35**(7) 695-715 (May 1999), 11A1385

Application of block-implicit multigrid approach to 3D heat transfer problems involving discrete heating, Numer Heat Transfer A **35**(7) 717-734 (May 1999), 11A1386

Multigrid methods for incompressible heat flow problems with an unknown interface, J Comput Phys **152**(1) 55-77 (Jun 1999), 11T1387

Numerical study of chaos based on a shell model, Chaos **9**(2) 393-402 (Jun 1999), 11A1388

Stability analysis for discretized steady convective-diffusion equation, Numer Heat Transfer B **35**(3) 369-388 (Apr-May 1999), 11A1389

Three-dimensional numerical analysis of natural convective liquid cooling of a 3 × 3 heater array in rectangular enclosures, Int J Heat Mass Transfer **42**(17) 3231-3244 (Sep 1999), 12A1308

Numerical simulation and aeorthermal physics of leading edge film cooling, Proc Inst Mech Eng A **213**(A2) 103-118 (1999), 12A1337

Conservative adaptive-mesh algorithm for unsteady, combined-mode heat transfer using the discrete ordinates method, Numer Heat Transfer B **35**(4) 407-430 (Jun 1999), 12A1384

402Z. Experimental techniques

Periodic transient method using liquid crystals for the measurement of local heat transfer coefficients, J Heat Transfer **120**(3) 772-777 (Aug 1998), 1T1309

Frequency response characteristics of an active heat flux gage, J Heat Transfer **120**(3) 577-582 (Aug 1998), 1A1339

Enhancement of heat transfer in compact heat exchanger by different type of rib with holographic interferometry, Exp Thermal Fluid Sci **17**(4) 339-346 (Aug 1998), 1T1354

Unsteady total temperature measurements downstream of a high-pressure turbine, J Turbomachinery **120**(4) 760-767 (Oct 1998), 2A1250

Detailed film cooling measurements on a cylindrical leading edge model: Effect of freestream turbulence and coolant density, J Turbomachinery **120**(4) 799-807 (Oct 1998), 2A1283

Direct full surface skin friction measurement using nematic liquid crystal techniques, J Turbomachinery **120**(4) 847-853 (Oct 1998), 2A1284

Low-aspect-ratio rib heat transfer coefficient measurements in a square channel, J Turbomachinery **120**(4) 831-838 (Oct 1998), 2A1285

Measurements in film cooling flows: Hole L-D and turbulence intensity effects, J Turbomachinery **120**(4) 791-798 (Oct 1998), 2A1286

Visualization of natural convection inside shallow solar stills, Exp Fluids **25**(4) 369-370 (Sep 1998), 3A1241

Direct measurement of the stream-function in a quasi-2D liquid metal flow, Exp Fluids **25**(4) 298-304 (Sep 1998), 3A1248

Detailed heat transfer distribution in two-pass square channels with rib turbulators and bleed holes, Int J Heat Mass Transfer **41**(23) 3781-3791 (Dec 1998), 3A1268

Measurements of the temperature field in an axisymmetric thermal pure plume, Exp Heat Transfer **11**(3) 207-219 (Jul-Sep 1998), 3A1269

Study of microencapsulated chiral nematics in the presence of electric fields, Int J Heat Mass Transfer **41**(22) 3685-3687 (Nov 1998), 3T1270

Time response characteristics of microcapsulated liquid-crystal particles, Heat Transfer Japan Res **27**(5) 390-398 (1998), 3A1307

Heat and mass transfer from internal flows to hemispheres and flat parts in between, Int J Heat Mass Transfer **41**(23) 3705-3718 (Dec 1998), 3A1363

Determination of local heat transfer coefficient based on bulk mean temperature using a transient liquid crystals technique, Exp Thermal Fluid Sci **18**(2) 142-149 (Oct 1998), 4T1334

Evaluation of estimation methods for high unsteady heat fluxes from surface measurements, J Thermophys Heat Transfer **12**(4) 543-551 (Oct-Dec 1998), 4A1335

Heat transfer analysis of a plug-type heat flux gauge, J Thermophys Heat Transfer **12**(4) 536-542 (Oct-Dec 1998), 4A1336

Investigation of an unstable convective flow using optical methods, Phys Fluids **10**(11) 2995-3008 (Nov 1998), 4T1337

Comparison of steady state and transient methods for measurement of local heat transfer in plate fin-tube heat exchangers using liquid crystal thermography with radiant heating, Int J Heat Mass Transfer **42**(1) 1-12 (Jan 1999), 5A1299

Heat Transfer Division - 1998, Volume 5: Numerical and Experimental Method in Heat Transfer (ASME, New York, 1998) 7N33

Experimental study of flow and heat transfer in sinusoidal wavy passages, Int J Heat Mass Transfer **42**(9) 1541-1553 (May 1999), 7A1218

Instability and transition to turbulence in a curved square duct by temperature fluctuation measurements, Exp Heat Transfer **12**(1) 53-71 (Jan-Mar 1999), 7A1262

Establishment of a new mass (heat) transfer measurement technique and its validation, Exp Heat Transfer **12**(1) 33-51 (Jan-Mar 1999), 7A1284

Heat flux measurements in homogeneous curved shear flow, J Heat Transfer **121**(1) 190-194 (Feb 1999), 7A1285

Film cooling effectiveness and mass-heat transfer coefficient downstream of one row of discrete holes, J Turbomachinery **121**(2) 225-232 (Apr 1999), 8A1284

Investigation of detailed film cooling effectiveness and heat transfer distributions on a gas turbine airfoil, J Turbomachinery **121**(2) 233-242 (Apr 1999), 8A1288

Experimental study on the relationship between velocity fluctuations and heat transfer in a turbulent air flow, J Turbomachinery **121**(2) 288-294 (Apr 1999), 8A1296

Measurement of momentum and heat transport in the turbulent channel flow with embedded longitudinal vortices, Int J Heat Fluid Flow **20**(2) 128-141 (Apr 1999), 8A1298

Numerical and experimental investigation of stability of natural convective flows within a horizontal annulus, J Fluid Mech **381** 27-61 (Feb 1999), 8A1303

Thin layer thermography: A new heat transfer measurement technique, Exp Fluids **26**(3) 257-265 (Feb 1999), 8A1327

Velocity field measurements by LDV in free convection flow from horizontal heated disks, Heat Tech **16**(2) 47-55 (1998), 9A1328

Dimensional analysis in heat transfer, J Heat Transfer **121**(2) 471-473 (May 1999), 9T1346

Stagnation region heat transfer of a turbulent axisymmetric jet impingement, Exp Heat Transfer **12**(2) 137-156 (Apr-Jun 1999), 10A1299

Interferometric study of Rayleigh-Benard convection using tomography with limited projection data, Exp Heat Transfer **12**(2) 117-136 (Apr-Jun 1999), 10A1324

Appraisal of a hot-wire temperature compensation technique for velocity measurements in non-isothermal flows, Int J Heat Mass Transfer **42**(16) 3097-3102 (Aug 1999), 11A1390

Perturbation of the heat transfer and the friction factor of a rib roughened surface in an annular passage due to localized removal of the ribbing, Nucl Eng Des **188**(1) 85-96 (Apr 1999), 11A1391

Electrochemical experimental method for natural convective heat and mass transfer in porous media, Heat Transfer Asian Res **28**(4) 266-277 (1999), 11A1521

404. TWO PHASE CONVECTION

Enhancement of condensate drainage from a horizontal integral-fin tube by means of a solid strip, Int J Heat Mass Transfer **42**(18) 3447-3459 (Sep 1999), 12A1338

404B. Nucleate pool boiling

Near-wall microlayer evaporation analysis and experimental study of nucleate pool boiling on inclined surfaces, J Heat Transfer **120**(3) 641-653 (Aug 1998), 1A1310

Pool boiling heat transfer to tar-oil-water mixtures, Arch Thermodyn **18**(1-2) 73-85 (1997), 1A1311

Thermal bubble formation on polysilicon micro resistors, J Heat Transfer **120**(3) 735-742 (Aug 1998), 1A1312

Interfacial behavior of growing bubbles in concentration boundary layer, Int J Heat Mass Transfer **41**(22) 3529-3535 (Nov 1998), 3A1271

Interphase fluctuation propagation and superposition model for boiling nucleation, Int J Heat Mass Transfer **41**(22) 3483-3489 (Nov 1998), 3A1272

Nucleate boiling of refrigerant-oil mixtures: Bubble equilibrium and oil enrichment at the interface of a growing vapor bubble, Int J Heat Mass Transfer **41**(22) 3451-3467 (Nov 1998), 3A1273

Nucleate pool boiling of mercury in the presence of a magnetic field, Int J Heat Mass Transfer **41**(22) 3491-3500 (Nov 1998), 3A1274

Parametric study of nucleate boiling on structured surfaces - Part I: Effect of tunnel dimensions, J Heat Transfer **120**(4) 1042-1048 (Nov 1998), 4A1338

Parametric study of nucleate boiling on structured surfaces - Part II: Effect of pore diameter and pore pitch, J Heat Transfer **120**(4) 1049-1054 (Nov 1998), 4A1339

Characteristics of heat transfer coefficient during nucleate pool boiling of binary mixtures, Heat Transfer Japan Res **27**(7) 535-549 (1998), 5A1232

Experimental evaluation of constants for the Rohsenow pool boiling correlation, Int J Heat Mass Transfer **42**(11) 2003-2013 (Jun 1999), 7A1286

Model of bubble nucleation on a micro line heater, J Heat Transfer **121**(1) 220-225 (Feb 1999), 7A1287

Basic Heat and Mass Transfer, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N31

Elimination of boiling incipience temperature drop in highly wetting fluids using spherical contact with a flat surface, Int J Heat Mass Transfer **42**(13) 2439-2454 (Jul 1999), 8A1328

Pool boiling incipience and vapor bubble growth dynamics in surfactant solutions, Int J Heat Mass Transfer **42**(13) 2483-2488 (Jul 1999), 8T1329

Nucleate boiling heat transfer of binary mixtures at low to moderate heat fluxes, J Heat Transfer **121**(2) 365-375 (May 1999), 9A1347

Nucleate pool boiling on ribbed surfaces with microroughness at low and moderate heat flux, J Heat Transfer **121**(2) 376-385 (May 1999), 9A1348

Relative stability of boiling on a flat plate: Effects of heater orientation, J Heat Transfer **121**(2) 484-486 (May 1999), 9T1349

FC-72 pool boiling from finned surfaces placed in a narrow channel: Preliminary results, Heat and Mass Transfer Warme **34**(6) 449-452 (Apr 1999), 11A1392

Reduction of scale formation under pool boiling conditions by ion implantation and magnetron sputtering on heat transfer surfaces, Heat Transfer Eng **20**(2) 6-14 (Apr-Jun 1999), 11A1393

Review of enhanced heat transfer in nucleate pool boiling of aqueous surfactant and polymeric solutions, J Enhanced Heat Transfer **6**(2-4) 135-150 (1999), 11A1394

Boiling of superheated liquids near the spinodal - I: General theory, Heat and Mass Transfer Warme **35**(1) 25-31 (May 1999), 12A1339

Dynamics and heat transfer associated with a single bubble during nucleate boiling on a horizontal surface, J Heat Transfer **121**(3) 623-631 (Aug 1999), 12A1340

404C. Pool boiling (peak heat flux)

Effects of surface orientation on the pool boiling heat transfer in water-2-propanol mixtures, J Heat Transfer **121**(1) 80-88 (Feb 1999), 7A1288

Orientation effects on pool boiling critical heat flux (CHF) and modeling of CHF for near-vertical surfaces, Int J Heat Mass Transfer **42**(9) 1665-1688 (May 1999), 7A1289

Heat transfer behavior on small horizontal heaters during pool boiling of FC-72, J Heat Transfer **121**(2) 386-393 (May 1999), 9A1350

Heat transfer characteristics of boiling phenomenon in flooded refrigerant evaporators, Appl Thermal Eng **19**(6) 595-624 (Jun 1999), 9A1351

Enhanced pool boiling of R-123 refrigerant on two selected tubes, Appl Thermal Eng **19**(8) 885-895 (Aug 1999), 10A1325

Enhanced boiling heat transfer on a compact tube array (Chinese), J Shanghai Jiaotong Univ **33**(3) 289-291 (Mar 1999), 12A1341

404E. Nucleate flow boiling (external)

Effect of tube bundles on nucleate boiling and critical heat flux, Heat Transfer Japan Res **27**(4) 312-325 (1998), 2A1287

Heat transfer of dilute spray impinging on hot surface: Simple model focusing on rebound motion and sensible heat of droplets, Int J Heat Mass Transfer **41**(24) 4113-4119 (Dec 1998), 5A1233

Boiling on a straight pin fin with variable thermal conductivity, Heat and Mass Transfer Warme **34**(5) 381-386 (Feb 1999), 7A1290

404F. Flow boiling (internal)

In-tube flow boiling of R-407C and R-407C/oil mixtures - Part II: Plain tube results and predictions, HVAC&R Res **4**(4) 373-399 (Oct 1998), 4A1343

In-tube flow boiling of R-407C, R-407C/oil mixtures - Part I: Microfin tube, HVAC&R Res **4**(4) 347-372 (Oct 1998), 4A1344

Boiling heat transfer coefficients inside a vertical smooth tube for water-ammonia and ammonia-lithium nitrate mixtures, Int J Heat Mass Transfer **42**(5) 905-921 (Mar 1999), 5A1234

Flow patterns during boiling in a narrow space between two vertical surfaces, Int J Multiphase Flow **24**(6) 947-960 (Sep 1998), 5T1235

Analytical study of two-phase flow pressure-drop oscillations in a vertical heated tube, Heat Transfer Japan Res **27**(8) 597-608 (1998), 6A1365

Comparative study of in-tube boiling on plain and high flux coated surfaces, J Enhanced Heat Transfer **5**(4) 257-264 (1998), 6A1366

Prediction of pressure drop in a boiling channel, J Heat Transfer **121**(1) 210-213 (Feb 1999), 7T1024

Experimental study of surface effect on flow boiling heat transfer in horizontal smooth tubes, Int J Heat Mass Transfer **42**(10) 1909-1918 (May 1999), 7A1291

Influence of vapor bubble sliding on forced convection boiling heat transfer, J Heat Transfer **121**(1) 73-79 (Feb 1999), 7A1292

Steam Power Engineering: Thermal and Hydraulic Design Principles (Cambridge UP, UK, 1999) 8N32

Flow patterns and heat transfer coefficients in flow-boiling and convective condensation of R22 inside a microfin tube of new design, Heat Tech **16**(2) 39-45 (1998), 9A1352

Simplified method for the determination of void fraction during subcooled boiling in channel flow, Arch Thermodyn **18**(3-4) 95-107 (1997), 10A1326

404G. Flow boiling, peak heat flux (internal)

Experimental study of critical heat flux in concentric-tube open thermosyphon, Int J Heat Mass Transfer **41**(23) 3691-3704 (Dec 1998), 3A1275

Forced convective boiling of subcooled water at high velocity, Heat Transfer Japan Res **27**(5) 376-389 (1998), 3A1276

Characteristics of critical heat flux in two phase thermosyphon: Relationship between maximum falling liquid rate and instability on interface of falling liquid film, Heat and Mass Transfer Warme **34**(2-3) 135-142 (Oct 1998), 5A1236

Effect of channel length on critical heat flux under conditions of high subcooling and high velocity in short heated channels, Heat Transfer Japan Res **27**(7) 509-521 (1998), 5A1237

Critical heat flux in a long, rectangular channel subjected to one-sided heating - I: Flow visualization, Int J Heat Mass Transfer **42**(10) 1835-1847 (May 1999), 7A1293

Critical heat flux in a long, rectangular channel subjected to one-sided heating - II: Analysis of critical heat flux data, Int J Heat Mass Transfer **42**(10) 1849-1862 (May 1999), 7A1294

Prediction of the critical heat flux in water subcooled flow boiling using a new mechanistic approach, Int J Heat Mass Transfer **42**(8) 1457-1466 (Apr 1999), 7A1295

Ultra-high critical heat flux (CHF) for subcooled water flow boiling - I: CHF data and parametric effects for small diameter tubes, Int J Heat Mass Transfer **42**(8) 1405-1428 (Apr 1999), 7A1296

Ultra-high critical heat flux (CHF) for subcooled water flow boiling - II: High-CHF database and design equations, Int J Heat Mass Transfer **42**(8) 1429-1456 (Apr 1999), 7A1297

Critical heat fluxes in flat miniature heat sinks with micro capillary grooves, J Heat Transfer **121**(1) 217-220 (Feb 1999), 7T1365

Assessment of CHF enhancement mechanisms in a curved, rectangular channel subjected to concave heating, J Heat Transfer **121**(2) 394-404 (May 1999), 9A1353

Critical heat flux in a long, curved channel subjected to concave heating, Int J Heat Mass Transfer **42**(20) 3831-3848 (Oct 1999), 12A1342

Experimental evaluation of the limiting critical quality values in circular and non-circular flow geometries, Nucl Eng Des **190**(3) 317-339 (Jun 1999), 12A1343

404H. Flow boiling, peak heat flux (external)

Enhancement of saturated flow boiling heat transfer on cylinders using interference sleeves, J Heat Transfer **120**(3) 789-792 (Aug 1998), 1A1313

Boiling stability characteristics of methanol flowing over a nonuniformly heated surface, Int J Heat Mass Transfer **41**(23) 4009-4023 (Dec 1998), 3A1277

Experimental investigation of bubble growth and detachment in vertical upflow and downflow boiling, Int J Heat Mass Transfer **41**(23) 3857-3871 (Dec 1998), 3A1278

Flow boiling heat transfer on a heating element restricted by an interference sleeve, Int J Heat Fluid Flow **19**(6) 661-671 (Dec 1998), 4A1340

Critical heat flux of water subcooled flow in one-side heated swirl tubes, Int J Heat Mass Transfer **42**(2) 287-301 (Jan 1999), 5A1238

Enhancing the critical heat flux using microchanneled surfaces, J Enhanced Heat Transfer **5**(3) 165-176 (1998), 5A1239

Boiling on a straight pin fin with variable thermal conductivity, Heat and Mass Transfer Warme **34**(5) 381-386 (Feb 1999), 7A1290

Natural-convection boiling on the downward-facing side of a hemispherical annular channel, Exp Heat Transfer **12**(1) 17-32 (Jan-Mar 1999), 7A1298

Heat transfer characteristics of boiling phenomenon in flooded refrigerant evaporators, Appl Thermal Eng **19**(6) 595-624 (Jun 1999), 9A1351

Critical heat flux during natural circulation boiling on uniformly heated outer tube in vertical annular tubes submerged in saturated liquid (change in critical heat flux characteristics due to heated equivalent diameter), Int J Heat Mass Transfer **42**(16) 3189-3194 (Aug 1999), 11A1395

Effects of size and number density of micro-reentrant cavities on boiling heat transfer from a silicon chip immersed in degassed and gas-dissolved FC-72, J Enhanced Heat Transfer **6**(2-4) 151-160 (1999), 11A1396

Experimental study on boiling heat transfer with an impinging jet on a hot block, Heat Transfer Asian Res **28**(5) 418-427 (1999), 12A1344

Thermoacoustic heating and cooling in near-critical fluids in the presence of a thermal plume, J Fluid Mech **388** 389-409 (Jun 1999), 12A1345

404I. Film boiling (pool)

Preliminary study on bubble departure in flow boiling under microgravity (Chinese), J Huazhong Univ Sci Tech **26**(6) 53-55 (Jun 1998), 3A1103

Nucleate pool boiling enhancement by means of surfactant additives, Exp Thermal Fluid Sci **18**(3) 195-209 (Nov 1998), 5T1240

Relative stability of boiling on a flat plate: Effects of heater orientation, J Heat Transfer **121**(2) 484-486 (May 1999), 9T1349

Thermoacoustic heating and cooling in near-critical fluids in the presence of a thermal plume, J Fluid Mech **388** 389-409 (Jun 1999), 12A1345

404J. Film boiling (flow)

Film boiling on vertical plates and spheres, Exp Thermal Fluid Sci **18**(2) 97-115 (Oct 1998), 4T1341

Application of the hyperbolic heat equation in transient heat flux estimation during flow film boiling, Numer Heat Transfer A **35**(4) 343-359 (Mar 1999), 9A1354

Boiling on a conical spine, Exp Heat Transfer **12**(2) 175-191 (Apr-Jun 1999), 10A1362

404K. Mist flows

Heat transfer augmentation of mist spraying air cooler (Chinese), J Shanghai Jiaotong Univ **33**(3) 313-317 (Mar 1999), 12A1346

404L. Transition boiling

Dry-spot model for transition boiling heat transfer in pool boiling, Int J Heat Mass Transfer **41**(23) 3771-3779 (Dec 1998), 3A1279

Amplification of the wall temperature pulsations under transition pool boiling, J Enhanced Heat Transfer **5**(3) 177-189 (1998), 5A1241

Studies on pool boiling heat transfer: Macrolayer thickness in transition boiling, Heat Transfer Japan Res **27**(8) 568-583 (1998), 6A1367

Thermodynamics of Critical Phenomena: New Analysis of the Evaluation of Properties (Begell House, New York, 1998) 7R29

Boiling on a conical spine, Exp Heat Transfer **12**(2) 175-191 (Apr-Jun 1999), 10A1362

404M. Condensation (static vapor)

Effects of sublimation-condensation region on heat and mass transfer during microwave freeze drying, J Heat Transfer **120**(3) 654-660 (Aug 1998), 1A1314

Stability regimes of thin liquid films, Microscale Thermophys Eng **2**(3) 203-213 (Jul-Aug 1998), 3A1283

Approximate analysis for laminar film condensation of pure refrigerant on vertical finned surface, J Enhanced Heat Transfer **5**(3) 191-200 (1998), 5A1242

Nusselt condensation and nonisothermality, Int J Heat Mass Transfer **41**(24) 4055-4061 (Dec 1998), 5A1243

Experimental analysis of bubble shapes during condensation in miscible and immiscible liquids, J Fluids Eng **121**(2) 496-502 (Jun 1999), 9A1179

Evaluation of models for condensation heat transfer on low-finned tubes, J Enhanced Heat Transfer **6**(1) 51-60 (1999), 9A1355

Influence of sweeping on dropwise condensation with varying body force and surface subcooling, Int J Heat Mass Transfer **42**(15) 2943-2953 (Aug 1999), 10A1327

Digital computer simulation of dropwise condensation from equilibrium droplet to detectable size, Int J Heat Mass Transfer **42**(16) 3137-3146 (Aug 1999), 11A1397

Effect of fin height during steam condensation on a horizontal stainless steel integral-fin tube, J Enhanced Heat Transfer **6**(2-4) 237-250 (1999), 11A1398

Horizontal convective condensation of alternative refrigerants within a micro-fin tube, J Enhanced Heat Transfer **6**(2-4) 161-178 (1999), 11A1399

Role of surface tension in film condensation in extended surface passages, J Enhanced Heat Transfer **6**(2-4) 179-216 (1999), 11A1400

Gibbs-Thomson effect on droplet condensation, J Heat Transfer **121**(3) 632-638 (Aug 1999), 12A1347

Reverse process of superheated steam drying from condensation to evaporation, Heat Transfer Asian Res **28**(5) 352-366 (1999), 12A1404

404N. Condensation (flowing vapor)

Calculations of water vapor flow with condensation, Arch Thermodyn **18**(1-2) 99-114 (1997), 1A1315
Heat and moisture transfer in energy wheels during sorption, condensation, and frosting conditions, J Heat Transfer **120**(3) 699-708 (Aug 1998), 1A1345
Heat transfer and friction in small diameter channels, Microscale Thermophys Eng **2**(3) 189-202 (Jul-Aug 1998), 3A1229
Augmentation of steam condensation heat transfer by addition of methylamine, Int J Heat Mass Transfer **41**(22) 3679-3683 (Nov 1998), 3T1280
Centerline pressure and cavity shape of horizontal plane choked vapor jets with low condensation potential, J Heat Transfer **120**(4) 999-1007 (Nov 1998), 4A1342
Analysis of laminar mixed-convection condensation on isothermal plates using the full boundary-layer equations: Mixtures of a vapor and a lighter gas, Int J Heat Mass Transfer **42**(4) 685-695 (Feb 1999), 5A1244
Condensation heat transfer and pressure drop of refrigerant R-134a in a small pipe, Int J Heat Mass Transfer **42**(4) 697-708 (Feb 1999), 5A1245
Two-phase flow patterns and transition characteristics for in-tube condensation with different surface inclinations, Int J Heat Mass Transfer **41**(24) 4341-4349 (Dec 1998), 5A1246
Determination of operation envelopes for closed, two-phase thermosyphons, Int J Heat Mass Transfer **42**(5) 889-903 (Mar 1999), 5A1247
Effects of aspect ratios on internal flow patterns of an inclined closed two-phase thermosyphon at normal operating condition, Heat Transfer Eng **19**(4) 75-85 (Oct-Dec 1998), 5A1248
Condensation heat transfer and pressure drop of refrigerant R-134a in a plate heat exchanger, Int J Heat Mass Transfer **42**(6) 993-1006 (Mar 1999), 7A1299
EHD-assisted external condensation of R-134a on smooth horizontal and vertical tubes, Int J Heat Mass Transfer **42**(10) 1747-1755 (May 1999), 7A1300
Heat transfer and pressure drop during condensation of refrigerant 134a in an axially grooved tube, Int J Heat Mass Transfer **42**(11) 1935-1944 (Jun 1999), 7A1301
Thermal and hydrodynamic analysis of the condensation and evaporation process in horizontal tube desalination plant, Int J Heat Mass Transfer **42**(9) 1633-1644 (May 1999), 7A1302
General modeling for heat transfer during reflux condensation inside vertical tubes surrounded by isothermal fluid, Int J Heat Mass Transfer **42**(12) 2299-2311 (Jun 1999), 8A1330
Pressure drop analysis of steam condensation in a plate-heat exchanger, Heat Transfer Eng **20**(1) 71-77 (Jan-Mar 1999), 8A1331
Pressure gradient and variable wall temperature effects during filmwise condensation from downward flowing vapors onto a horizontal tube, Int J Heat Mass Transfer **42**(13) 2419-2426 (Jul 1999), 8A1332
Flow patterns and heat transfer coefficients in flow-boiling and convective condensation of R22 inside a microfin tube of new design, Heat Tech **16**(2) 39-45 (1998), 9A1352
Condensation of downward-flowing zeotropic mixture HCFC-123 and HFC-134a on a staggered bundle of horizontal low-finned tubes, J Heat Transfer **121**(2) 405-412 (May 1999), 9A1356
New model for refrigerant condensation on the outside of 3D enhanced tubes, Heat Tech **16**(2) 71-76 (1998), 9A1357
Overview of condensation heat transfer on horizontal tube bundles, Appl Thermal Eng **19**(6) 565-594 (Jun 1999), 9A1358
In-tube evaporation and condensation of R-22 and R-410A with plain and internally enhanced tubes, J Enhanced Heat Transfer **6**(1) 37-50 (1999), 9A1361
Analysis of a nozzle condensation drying cycle, Appl Thermal Eng **19**(8) 831-845 (Aug 1999), 10A1328
Condensation of R-410A in a rectangular channel, HVAC&R Res **5**(2) 99-123 (Api 1999), 10A1329
Investigations of heat transfer on a horizontal finned tube fitted with the drainage strip, Arch Thermodyn **18**(3-4) 25-48 (1997), 10A1330
Role of surface tension in film condensation in extended surface passages, J Enhanced Heat Transfer **6**(2-4) 179-216 (1999), 11A1400
Critical review of condensation heat transfer predicting models: Effects of surface-tension force, J Enhanced Heat Transfer **6**(2-4) 217-236 (1999), 11A1401
Instability of condensate film and capillary blocking in small-diamater-thermosyphon condensers, Int J Heat Mass Transfer **42**(16) 3071-3083 (Aug 1999), 11A1402

Investigation of two-phase flow regimes in tube bundles under cross-flow conditions, Int J Multiphase Flow **25**(5) 857-874 (Aug 1999), 12T1396

404O. Evaporation

Near-wall microlayer evaporation analysis and experimental study of nucleate pool boiling on inclined surfaces, J Heat Transfer **120**(3) 641-653 (Aug 1998), 1A1310
Capillary performance of evaporating flow in micro grooves: An approximate analytical approach and experimental investigation, J Heat Transfer **120**(3) 743-751 (Aug 1998), 1A1316
One-dimensional flashing flow: Application to continuous blowdown and emergency overflow from boiler steam drums, Arch Thermodyn **18**(1-2) 19-49 (1997), 1A1317
Heat transfer of air-water dispersed flow in a vertical pipe, Heat Transfer Japan Res **27**(4) 255-270 (1998), 2A1288
Evaporative cooling of liquid film in turbulent mixed convection channel flows, Int J Heat Mass Transfer **41**(23) 3719-3729 (Dec 1998), 3A1281
Experimental study of Marangoni-Benard convection in a liquid layer induced by evaporation, Exp Heat Transfer **11**(3) 187-205 (Jul-Sep 1998), 3A1282
In-tube flow boiling of R-407C and R-407C/oil mixtures - Part II: Plain tube results and predictions, HVAC&R Res **4**(4) 373-399 (Oct 1998), 4A1343
In-tube flow boiling of R-407C, R-407C/oil mixtures - Part I: Microfin tube, HVAC&R Res **4**(4) 347-372 (Oct 1998), 4A1344
Determination of operation envelopes for closed, two-phase thermosyphons, Int J Heat Mass Transfer **42**(5) 889-903 (Mar 1999), 5A1247
Effects of aspect ratios on internal flow patterns of an inclined closed two-phase thermosyphon at normal operating condition, Heat Transfer Eng **19**(4) 75-85 (Oct-Dec 1998), 5A1248
Evaporation heat transfer and pressure drop of refrigerant R-134a in a small pipe, Int J Heat Mass Transfer **41**(24) 4183-4194 (Dec 1998), 5A1249
Heat transfer characteristics of inclined evaporator section for separate-type heat pipe (Chinese), J Xi'an Jiaotong Univ **32**(11) 36-39 (1998), 5A1306
Enhancement of evaporating heat transfer in a horizontal tube using annular crevices, J Enhanced Heat Transfer **5**(4) 265-277 (1998), 6A1368
Experimental investigation of falling film evaporation on horizontal tubes, Heat Transfer Japan Res **27**(8) 609-618 (1998), 6A1369
Thermal and hydrodynamic analysis of the condensation and evaporation process in horizontal tube desalination plant, Int J Heat Mass Transfer **42**(9) 1633-1644 (May 1999), 7A1302
Evaporation of ammonia in a smooth horizontal tube: Heat transfer measurements and predictions, J Heat Transfer **121**(1) 89-101 (Feb 1999), 7A1303
Evaporative heat transfer in a capillary structure heated by a grooved block, J Thermophys Heat Transfer **13**(1) 126-133 (Jan-Mar 1999), 7A1304
Experimental and numerical investigation of heat transfer and phase change phenomena during excimer laser interaction with nickel, Int J Heat Mass Transfer **42**(8) 1371-1382 (Apr 1999), 7A1305
Heat and mass transfer of a water film falling down a tilted plate with radiant heating and evaporation, Heat and Mass Transfer Warme **34**(5) 387-393 (Feb 1999), 7A1306
Sodium vapor pressure losses in a multitube, alkali-metal thermal-to-electric converter, J Thermophys Heat Transfer **13**(1) 117-125 (Jan-Mar 1999), 7A1307
Spray evaporation heat transfer of R-141b on a horizontal tube bundle, Int J Heat Mass Transfer **42**(8) 1467-1478 (Apr 1999), 7A1308
Transport coefficients and life history of a vaporizing liquid fuel droplet subject to retardation in a convective ambience, Int J Heat Fluid Flow **20**(1) 68-73 (Feb 1999), 7A1309
Vaporization, melting and heat conduction in the laser drilling process, Int J Heat Mass Transfer **42**(10) 1775-1790 (May 1999), 7A1310
Evaporation heat transfer and pressure drop of refrigerant R-134a in a plate heat exchanger, J Heat Transfer **121**(1) 118-127 (Feb 1999), 7A1355
Experimental and theoretical study of one- and two-component droplet vaporization in a high pressure environment, Int J Heat Mass Transfer **42**(14) 2683-2694 (Jul 1999), 8A1333
Experimental investigation of combined turbulent free and forced evaporation, Exp Thermal Fluid Sci **18**(4) 334-340 (Dec 1998), 8T1334
Mass transfer outside a horizontal tube for an indirect evaporative cooler (Chinese), J Xi'an Jiaotong Univ **33**(3) 68-71 (1999), 8A1389
Evaporation waves in superheated dodecane, J Fluid Mech **382** 63-86 (Mar 1999), 9A1359
Heat transfer enhancement characteristics for falling-film evaporation on horizontal enhanced tubes with aqueous LiBr solution, J Enhanced Heat Transfer **6**(1) 61-69 (1999), 9A1360
In-tube evaporation and condensation of R-22 and R-410A with plain and internally enhanced tubes, J Enhanced Heat Transfer **6**(1) 37-50 (1999), 9A1361
Pool evaporation of decane into an enclosed gas space undergoing thermal convection, J Heat Transfer **121**(2) 486-488 (May 1999), 9T1362
Heat transfer of two-phase spray impinging on a hot surface, Arch Thermodyn **18**(3-4) 61-79 (1997), 10A1331
Vaporization of a volatile organic substance in a porous medium (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 371-377 (Apr 1999), 10A1332
Experimental study of water droplet boiling on hot, non-porous surfaces, Heat and Mass Transfer Warme **34**(6) 437-447 (Apr 1999), 11A1403
Falling film evaporation: State-of-the-art review of recent work, J Enhanced Heat Transfer **6**(2-4) 263-277 (1999), 11A1404
In-tube evaporation of R-22 and three of its alternatives in a 15.88mm internally enhanced tube, J Enhanced Heat Transfer **6**(2-4) 317-326 (1999), 11A1405
Analysis of spray cooling heat flux, J Heat Transfer **121**(3) 742-745 (Aug 1999), 12T1348
Evaporation heat transfer of falling liquid films on horizontal tube evaporator (Chinese), J Shanghai Jiaotong Univ **33**(3) 276-280 (Mar 1999), 12A1349
Evaporative heat transfer and enhancement performance of serpentine tubes with strip-type inserts using refrigerant-134a, J Heat Transfer **121**(3) 752-757 (Aug 1999), 12T1350
Model and powder particle heating, melting, resolidification, and evaporation in plasma spraying processes, J Heat Transfer **121**(3) 691-699 (Aug 1999), 12A1374
Reverse process of superheated steam drying from condensation to evaporation, Heat Transfer Asian Res **28**(5) 352-366 (1999), 12A1404

404P. Surface tension effects

Stability regimes of thin liquid films, Microscale Thermophys Eng **2**(3) 203-213 (Jul-Aug 1998), 3A1283
Nucleate pool boiling enhancement by means of surfactant additives, Exp Thermal Fluid Sci **18**(3) 195-209 (Nov 1998), 5T1240
Radiative heat transfer in silicon floating zone furnace with specular reflection on concave surfaces, JSME Int J Ser B **41**(4) 888-894 (Nov 1998), 8A1335
Theoretical analysis of spreading and solidification of molten droplet during thermal spray deposition, Int J Heat Mass Transfer **42**(14) 2499-2508 (Jul 1999), 8A1336
Effects of surface tension and binary diffusion on pool boiling of dilute solutions: An experimental assessment, J Heat Transfer **121**(2) 488-493 (May 1999), 9T1363
Heat transfer of sprays of large water drops impacting on high temperature surfaces, J Heat Transfer **121**(2) 446-450 (May 1999), 9A1364

404Q. Transient effects

Characteristics of flowrate transients in slug flow, Int J Multiphase Flow **24**(5) 825-854 (Aug 1998), 4T1123
Transient simulation of two-phase flows in pipes, Int J Multiphase Flow **24**(5) 739-755 (Aug 1998), 4A1138
Investigation of the cooling of hot walls by liquid water sprays, Int J Heat Mass Transfer **42**(7) 1157-1175 (Apr 1999), 7A1311
Moving-boundary nodal for the analysis of the stability of boiling channels, Int J Heat Mass Transfer **42**(19) 3575-3584 (Oct 1999), 12A1351

404R. Solid-fluid flows

Numerical simulation of a 2D crystal growth problem in vertical Bridgman-Stockbarger furnace: Latent heat effect and crystal-melt interface morphology, Int J Heat Mass Transfer **42**(3) 573-579 (Feb 1999), 5A1250
Temperature fluctuations in particle-laden homogeneous turbulent flows, Int J Heat Mass Transfer **41**(24) 4081-4093 (Dec 1998), 5A1251
Finite element analysis of the flow and heat transfer of solid particles in moving beds, Int J Energy Res **22**(13) 1145-1155 (Oct 1998), 5A1301
Adaptive mesh refinement computation of solidification microstructures using dynamic data structures, J Comput Phys **148**(1) 265-290 (Jan 1999), 6A1370
Numerical modeling of flow in a vertical cooling crystallizer, J Fluids Eng **121**(1) 148-154 (Mar 1999), 7A1312
Experimental investigation of nucleation probability of supercooled water inside cylindrical capsules, Exp Thermal Fluid Sci **18**(4) 299-306 (Dec 1998), 8T1337
Two-dimensional solidification and melting in potential flows, J Fluid Mech **378** 1-18 (Jan 1999), 8A1338
Effect of combined particle-phase diffusivity and viscosity on the compressible boundary layer of a particulate suspension over a flat plate, J Heat Transfer **121**(2) 420-429 (May 1999), 9A1365
CFD study of the heat transfer between a dilute gas particle suspension flow and an obstruction, Numer Heat Transfer A **35**(5) 537-551 (Apr 1999), 10A1333
Experiments with constrained chimney-plume flows in the system ammonium chloride-water: Comparison with the unconstrained case, J Fluid Mech **388** 21-48 (Jun 1999), 12A1352
Weak convection, liquid inclusions and the formation of chimneys in mushy layers, J Fluid Mech **388** 197-215 (Jun 1999), 12A1353

404S. Electric field effects

Thermal bubble formation on polysilicon micro resistors, J Heat Transfer **120**(3) 735-742 (Aug 1998), 1A1312
Effect of drop deformation on heat transfer to a drop suspended in an electrical field, J Heat Transfer **120**(3) 682-689 (Aug 1998), 1A1318
Transient thermocapillary flows induced by a droplet translating in an electric field, J Heat Transfer **120**(3) 752-757 (Aug 1998), 1A1319
Electric field effect in boiling heat transfer - Part A: Simulation of the electric field and electric forces, J Enhanced Heat Transfer **5**(4) 217-229 (1998), 6A1371
Electric field effect in boiling heat transfer - Part B: Electrode geometry, J Enhanced Heat Transfer **5**(4) 231-247 (1998), 6A1372
Heat transfer to liquid drops passing through an immiscible liquid medium between tilted parallel-plate electrodes, Int J Heat Mass Transfer **42**(16) 3113-3129 (Aug 1999), 11A1406

404V. Porous media

Effects of sublimation-condensation region on heat and mass transfer during microwave freeze drying, J Heat Transfer **120**(3) 654-660 (Aug 1998), 1A1314
Natural convective boiling in vertical annular tubes filled with porous medium (Chinese), J Shanghai Jiaotong Univ **32**(7) 75-80 (Jul 1998), 4A1345
Coupled heat and mass transfer of a stagnation point flow in a heated porous bed with liquid film evaporation, Int J Heat Mass Transfer **42**(5) 861-872 (Mar 1999), 5A1252
Boiling liquid nitrogen heat transfer in channels with porous copper inserts, Int J Heat Mass Transfer **42**(7) 1189-1204 (Apr 1999), 7A1527
Enhanced cooling via boiling in porous layers: The effect of vapor channels, J Heat Transfer **121**(1) 205-210 (Feb 1999), 7A1528
Numerical investigation of two-phase fluid flow and heat transfer in porous media heated from the side, Numer Heat Transfer A **35**(3) 271-290 (Feb 1999), 8A1339
Vaporization of a volatile organic substance in a porous medium (French), Comptes Rendus L'Acad Sci Serie II **327**(4) 371-377 (Apr 1999), 10A1332
Non-Darcian effects on the heat-pipe wicking limit, Appl Mech Eng **3**(3) 433-450 (1998), 10T1334
Two-phase free convection flow over an infinite permeable inclined plate with nonuniform particle-phase density, Int J Eng Sci **37**(10) 1351-1367 (Aug 1999), 11A1407
Variations of buoyancy-induced mass flux from single-phase to two-phase flow in a vertical porous tube with constant heat flux, J Heat Transfer **121**(3) 646-652 (Aug 1999), 12A1437

404Y. Computational techniques

Consecutive-photo method to measure vapor volume flow rate during boiling from a wire immersed in saturated liquid, J Heat Transfer **120**(3) 561-567 (Aug 1998), 1A1320
Transient simulation of two-phase flows in pipes, Int J Multiphase Flow **24**(5) 739-755 (Aug 1998), 4A1138
Adaptive mesh refinement computation of solidification microstructures using dynamic data structures, J Comput Phys **148**(1) 265-290 (Jan 1999), 6A1370
Mechanisms of thermo-solutal transport and segregation in high-pressure liquid-encapsulated Czochralski crystal growth, J Heat Transfer **121**(1) 148-159 (Feb 1999), 7A1432
Numerical solution of the transient two-phase flow in rigid pipelines, Int J Numer Methods Fluids **29**(5) 501-514 (Mar 1999), 8A1340
Selection of differencing schemes on simulating the sprinkler hot-air layer problem, Numer Heat Transfer A **35**(3) 311-330 (Feb 1999), 8A1341
Advances in computational heat transfer, Int J Comput Fluid Dyn **11**(3-4) 193-362 (1999), 9A1343
Numerical study of transport phenomena in sessile droplets during internal solidification, Numer Heat Transfer A **35**(4) 373-392 (Mar 1999), 9A1366

Weak convection, liquid inclusions and the formation of chimneys in mushy layers, J Fluid Mech **388** 197-215 (Jun 1999), 12A1353

404Z. Experimental techniques

Experimental study of Marangoni-Benard convection in a liquid layer induced by evaporation, Exp Heat Transfer **11**(3) 187-205 (Jul-Sep 1998), 3A1282
Dynamic void fraction measurements in horizontal ducts with sudden area contraction, Int J Heat Mass Transfer **41**(23) 3807-3815 (Dec 1998), 3A1284
Flow patterns during boiling in a narrow space between two vertical surfaces, Int J Multiphase Flow **24**(6) 947-960 (Sep 1998), 5T1235
Establishment of a new mass (heat) transfer measurement technique and its validation, Exp Heat Transfer **12**(1) 33-51 (Jan-Mar 1999), 7A1284
Experimental investigation of combined turbulent free and forced evaporation, Exp Thermal Fluid Sci **18**(4) 334-340 (Dec 1998), 8T1334
Comparison of 20 two-phase heat transfer correlations with seven sets of experimental data, including flow pattern and tube inclination effects, Heat Transfer Eng **20**(1) 15-40 (Jan-Mar 1999), 8A1342
Estimation of thermal effects in cavitation of thermosensible liquids, Int J Heat Mass Transfer **42**(17) 3195-3204 (Sep 1999), 12A1354

406. CONDUCTION

406A. General theory

Coating sequence effect for composites containing multiply coated long fibers, J Composite Mat **32**(13) 1306-1324 (1998), 1A614
Blow-up rate for a system of heat equations with nonlinear boundary conditions, Nonlinear Anal **34**(5) 767-778 (Dec 1998), 1T1321
Effects of material properties on heat dissipation in high power electronics, J Electron Packaging **120**(3) 280-289 (Sep 1998), 1A1356
Heat and Mass Transfer (Springer-Verlag, Berlin, 1998) 2R29
Heat Transfer Essentials: A Textbook (Begell House, New York, 1998) 2R30
Model for heat transfer in grinding, Nonlinear Anal **35**(2) 233-246 (Jan 1999), 3A711
Growth and decay results in heat conduction problems with nonlinear boundary conditions, Nonlinear Anal **35**(2) 269-286 (Jan 1999), 3A1285
Solution of parabolic and hyperbolic inverse heat conduction problems, Int J Heat Mass Transfer **41**(23) 3731-3740 (Dec 1998), 3A1286
Electrolytes: Properties of Solutions, Methods for Calculation of Multicomponent Systems, and Experimental Data on Thermal Conductivity and Surface Tension (Begell House, New York, 1998) 4N25
Heat and Mass Transfer Australasia (Begell House, New York, 1998) 4N33
Constructal 3D trees for conduction between a volume and one point, J Heat Transfer **120**(4) 977-984 (Nov 1998), 4A1346
Heat transfer in living systems: Current opportunities, J Heat Transfer **120**(4) 810-829 (Nov 1998), 4A1347
Inverse estimation of mix-typed boundary conditions in heat conduction problems, J Thermophys Heat Transfer **12**(4) 552-561 (Oct-Dec 1998), 4A1348
Modified temperature-jump method for the transition and low-pressure regime, J Heat Transfer **120**(4) 965-970 (Nov 1998), 4A1349
Thermal lagging in random media, J Thermophys Heat Transfer **12**(4) 567-574 (Oct-Dec 1998), 4A1350
Solution of inverse heat transfer problem using the Karhunen-Loeve Garlerkin method, Int J Heat Mass Transfer **42**(1) 127-142 (Jan 1999), 5A1253
Mathematics of Heat Transfer (Oxford UP, New York, 1998) 7N34
Thermal conductance of cylindrical joints, Int J Heat Mass Transfer **42**(7) 1273-1287 (Apr 1999), 7A1313
Thermal potential formulation of hyperbolic heat conduction, J Heat Transfer **121**(1) 166-169 (Feb 1999), 7T1314
Two constructal routes to minimal heat flow resistance via greater internal complexity, J Heat Transfer **121**(1) 6-14 (Feb 1999), 7A1315
Variance propagation algorithm for the computation of heat conduction under stochastic conditions, Int J Heat Mass Transfer **42**(8) 1513-1520 (Apr 1999), 7A1316
Advances in Heat Transfer, Volume 32 (Academic Press, San Diego CA, 1999) 8N28
Basic Heat and Mass Transfer, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N31
Optimal insulation of conductors, J Optim Theory Appl **100**(2) 253-263 (Feb 1999), 9A1367
Sequential gradient method for the inverse heat conduction problem, J Heat Transfer **121**(2) 300-306 (May 1999), 9A1368
Fourier's law of heat conduction in a nonlinear fluid, J Thermal Stresses **22**(3) 293-303 (Apr 1999), 10A1335
Hamiltonian description of the heat conduction, Heat and Mass Transfer Warme **34**(6) 453-459 (Apr 1999), 11A1408
Uniqueness and non-uniqueness for a system of heat equations with nonlinear coupling at the boundary, Nonlinear Anal **37**(2) 257-267 (Jul 1999), 11T1409
Approximate controllability of a semilinear heat equation in unbounded domains, Nonlinear Anal **37**(8) 1059-1090 (Sep 1999), 12T1355
Neutral inhomogeneities in conduction phenomena, J Mech Phys Solids **47**(9) 1873-1892 (Sep 1999), 12A1356
Transient temperature computation for a system of multiply contacting spheres in a 180° orientation, J Heat Transfer **121**(3) 739-742 (Aug 1999), 12T1357
Constructal trees of convective fins, J Heat Transfer **121**(3) 675-682 (Aug 1999), 12A1398
Heat transfer in fin assemblies: Significance of 2D effects - A reexamination of the issue, J Heat Transfer **121**(3) 748-752 (Aug 1999), 12A1399

406B. Steady problems

Heat transfer analysis for quartz microresonator IR sensors, Int J Solids Struct **35**(28-29) 3635-3653 (Oct 1998), 1A1322
Pseudospectral method for the direct and the inverse thermal problem in plane, multiply connected domains, Acta Mech **130**(1-2) 55-65 (1998), 2A1289
Differential transformation technique for steady nonlinear heat conduction problems, Appl Math Comput **95**(2-3) 155-164 (Sep 1998), 2A1296
Classical Galerkin shortcomings on the steady heat conduction simulation in a plate with thermal source, Mech Res Commun **25**(5) 561-567 (Sep-Oct 1998), 3T1287
Steady state thermal model for the hot chamber injection system in the pressure die casting process, J Mat Processing Tech **82**(1-3) 27-45 (Oct 1998), 3A1288
Steady heat conduction of a material with an array of cylindrical holes in the nonlinear case, IMA J Appl Math **61**(1) 91-102 (Sep 1998), 5A1268
Gas-assisted laser repetitive pulsed heating of a steel surface, Proc Inst Mech Eng C **212**(C8) 741-757 (1998), 6A1258
Three-dimensional numerical modeling of heat transfer between two sliding bodies: Temperature and thermal contact resistance, Int J Heat Mass Transfer **42**(13) 2363-2374 (Jul 1999), 8A1345
Boundary element method for the solution of a class of steady-state problems for anisotropic media, J Heat Transfer **121**(2) 462-465 (May 1999), 9T1369
Heat conduction from spheroids, J Heat Transfer **121**(2) 497-499 (May 1999), 9T1370
Coupling of the methods of successive approximations and undetermined coefficients for the prediction of the thermal behavior of uniform circumferential fins, Heat and Mass Transfer Warne **34**(6) 461-468 (Apr 1999), 11A1410
Finite element approximation for the heat transfer process in a plate with a nonuniform temperature-dependent source, J Brazilian Soc Mech Sci **21**(1) 41-50 (Mar 1999), 11A1411
Effect of metabolic heat generation and blood perfusion on the heat transfer in the tissues with a blood vessel, Heat and Mass Transfer Warme **35**(1) 75-79 (May 1999), 12A1358
Fin efficiency of annular fins made of two materials, Int J Heat Mass Transfer **42**(18) 3461-3467 (Sep 1999), 12A1359
Semi-analytical solution for heat transfer from a buried pipe with convection on the exposed surface, Int J Heat Mass Transfer **42**(20) 3771-3786 (Oct 1999), 12A1360
Similarity solutions of stationary thermoelasticity with the frictional heating, Int J Heat Mass Transfer **42**(18) 3539-3544 (Sep 1999), 12A1361
Simultaneous determination of temperatures, heat fluxes, deformations, and tractions on inaccessible boundaries, J Heat Transfer **121**(3) 537-545 (Aug 1999), 12A1362
Conduction trees with spacings at the tips, Int J Heat Mass Transfer **42**(20) 3739-3756 (Oct 1999), 12A1377

406C. Transient problems

Analytical model for turbulent compression-driven heat transfer, J Heat Transfer **120**(3) 617-623 (Aug 1998), 1A1288
Two-dimensional modeling of heat transfer through sandwich plates with inhomogeneous boundary conditions on the faces, J Heat Transfer **120**(3) 606-616 (Aug 1998), 1A1296
Boundary element method analysis for the transient conduction-convection in 2D with spatially variable convective velocity, Appl Math Model **22**(1-2) 81-112 (Jan-Feb 1998), 1A1323
Electronic desorption of surface species using short-pulse lasers, J Heat Transfer **120**(3) 765-771 (Aug 1998), 1A1324
Study of temperature field during plate bending by line heating, J Dalian Univ Tech **38**(4) 392-399 (Jul 1998), 1A1325
Thermal characteristics of roll and strip interface in modeling rolling processes, J Mat Processing Manuf Sci **6**(1) 3-18 (Jul 1997), 2A1290
Dynamic stress of a liquid metal target container under pulsed heating, J Pressure Vessel Tech **120**(4) 359-364 (Nov 1998), 2A1319
Analysis of the electrochemical spark machining process, Int J Machine Tools Manuf **39**(1) 165-186 (Jan 1998), 3A726
Analysis of transient heat transfer in annular fins of various shapes with a base subjected to a decayed exponential function of time in heat flux, Heat Transfer Eng **19**(3) 77-86 (Jul-Sep 1998), 3A1289
Finite-difference solution of hyperbolic heat conduction with temperature-dependent properties, Numer Heat Transfer A **34**(2) 169-183 (Aug 1998), 3A1290
Study on heat flow and temperature monitoring in the laser brazing of a pin-to-plate joint, J Mat Processing Tech **82**(1-3) 53-60 (Oct 1998), 3A1291
Minimum heating entry trajectories for reusable launch vehicles, J Spacecraft Rockets **35**(5) 672-682 (Sep-Oct 1998), 4A1351
Transient thermal response of a rotating cylindrical silicon nitride workpiece subjected to a translating laser heat source - Part I: Comparison of surface temperature measurements with theoretical results, J Heat Transfer **120**(4) 899-906 (Nov 1998), 4A1352
Transient thermal response of a rotating cylindrical silicon nitride workpiece subjected to a translating laser heat source - Part II: Parametric effects and assessment of a simplified model, J Heat Transfer **120**(4) 907-915 (Nov 1998), 4A1353
Approximate solution of heat conduction equation with mixed boundary conditions of a rectangular plate, Mech Res Commun **25**(6) 631-636 (Nov-Dec 1998), 5T1254
Combined thermal and optical analysis of laser back-scribing for amorphous-silicon photovoltaic cells processing, Int J Heat Mass Transfer **42**(4) 645-656 (Feb 1999), 5A1255
Determination of two heat sources in an inverse heat conduction problem, Int J Heat Mass Transfer **42**(2) 345-356 (Jan 1999), 5A1256
Distribution of friction heat during cold-rolling of metals by using composite rolls, Numer Heat Transfer A **34**(7) 719-729 (Nov 1998), 5A1257
Heat transfer during heat sterilization and cooling processes of canned products, Heat and Mass Transfer Warme **34**(2-3) 101-105 (Oct 1998), 5A1258
Pulsed electromagnetic heating of microparticles, Int J Heat Mass Transfer **41**(24) 4195-4204 (Dec 1998), 5A1259
Three-dimensional propagation of hyperbolic thermal waves in a solid bar with rectangular cross-section, Int J Heat Mass Transfer **42**(2) 219-229 (Jan 1999), 5A1260
Unified solution for heat conduction in thin films, Int J Heat Mass Transfer **42**(3) 455-465 (Feb 1999), 5A1261
Wavy, wavelike, diffusive thermal responses of finite rigid slabs to high-speed heating of laser-pulses, Int J Heat Mass Transfer **42**(5) 855-860 (Mar 1999), 5A1262
Inverse estimation of transient temperature distribution in the end quenching test, J Mat Processing Tech **86**(1-3) 257-263 (Feb 1999), 6A1373
Numerical analysis of rapid solidification in a single roller process, Heat Transfer Asian Res **28**(1) 34-49 (1998), 6A1374
Transient 3D numerical model for thermal analysis in x-ray lithography, Numer Heat Transfer A **34**(8) 805-819 (Dec 1998), 6A1375
Investigation of the cooling of hot walls by liquid water sprays, Int J Heat Mass Transfer **42**(7) 1157-1175 (Apr 1999), 7A1311
Algorithm to accelerate simulations of simultaneous heat and gas transfer in gas-filled foams, J Thermal Envelope Build Sci **22** 230-263 (Jan 1999), 7A1317
Analysis of the temperature profile of a rolled structural steel section with a view to reducing its camber, Appl Thermal Eng **19**(3) 271-278 (Mar 1999), 7A1318
Finite element modeling of heat transfer analysis in machining of isotropic materials, Int J Heat Mass Transfer **42**(9) 1569-1583 (May 1999), 7A1319
Inverse method for estimation of the initial temperature profile and its evolution in polymer processing, Int J Heat Mass Transfer **42**(11) 1969-1978 (Jun 1999), 7A1320
Space marching method for multidimensional transient inverse heat conduction problems, Heat and Mass Transfer Warme **34**(5) 349-356 (Feb 1999), 7A1321
Transient temperature distribution in homogeneous and composite materials, Indian J Eng Mat Sci **5**(5) 302-306 (Oct 1998), 7A1322
Finite element method for solution of the 3D time-dependent heat-conduction equation with application for heating of steels in reheating furnaces, Numer Heat Transfer A **35**(2) 155-172 (Feb 1999), 7A1336
Thermoelasticity of multilayered cylinders, J Thermal Stresses **22**(1) 57-74 (Jan-Feb 1999), 7A1413
Three-dimensional transient thermal stresses of functionally graded rectangular plate due to partial heating, J Thermal Stresses **22**(1) 35-55 (Jan-Feb 1999), 7A1414
Application of the Taylor transformation to the transient temperature response of an annular fin, Heat Transfer Eng **20**(1) 78-87 (Jan-Mar 1999), 8A1365
Minimum mass design of radiating radial fin of trapezoidal profile, Heat Transfer Eng **20**(1) 88-90 (Jan-Mar 1999), 8A1367
Inverse geometry problem of identifying growth of boundary shapes in a multiple region domain, Numer Heat Transfer A **35**(4) 435-450 (Mar 1999), 9A1371
Precise algorithm in the time domain to solve the problem of heat transfer, Numer Heat Transfer B **35**(2) 243-249 (Mar 1999), 9A1388
Depth of thermal penetration: Effect of relaxation and thermalization, J Thermophys Heat Transfer **13**(2) 266-269 (Apr-Jun 1999), 10T1336
Design optimization and sensitivity analysis of transient heat transfer problems (Chinese), J Dalian Univ Tech **39**(2) 158-165 (Mar 1999), 10A1337
Envelope and indoor thermal capacitance of buildings, Appl Thermal Eng **19**(7) 743-756 (Jul 1999), 10A1338
Transient analysis and measurement of anisotropic heat conduction in transversely isotropic composite materials, J Composite Mat **33**(7) 594-613 (1999), 10A1339
Explicit approximations for all eigenvalues of the 1D transient heat conduction equations, Heat Transfer Eng **20**(2) 35-41 (Apr-Jun 1999), 11A1412
Molecular-level imaging of ice crystal structure and dynamics by atomic force microscopy, Microscale Thermophys Eng **3**(2) 101-110 (Apr-Jun 1999), 11A1413
Thermal stresses in functionally graded materials, J Thermal Stresses **22**(4-5) 477-512 (May-Jul 1999), 11A1450
Non-Fourier heat conduction by axisymmetric thermal waves in an infinite solid medium, Heat and Mass Transfer Warme **35**(1) 1-8 (May 1999), 12A1363
Phase-sensitive technique for the thermal characterization of dielectric thin films, J Heat Transfer **121**(3) 528-536 (Aug 1999), 12A1364
Three-dimensional inverse heat conduction problem in estimating surface heat flux by conjugate gradient method, Int J Heat Mass Transfer **42**(18) 3387-3403 (Sep 1999), 12A1365
Wave diffusion and parallel nonequilibrium heat conduction, J Heat Transfer **121**(3) 702-707 (Aug 1999), 12A1366

406D. Nonlinear theory

Temperature distribution in cold ice, Rendiconti Lincei Matematica e Appl **VIII**(4) 299-312 (1997), 1A1326
Shape design sensitivity analysis and optimization for nonlinear heat and electric conduction problems, Numer Heat Transfer A **34**(2) 185-203 (Aug 1998), 3A1292
Heat transfer analysis of a plug-type heat flux gauge, J Thermophys Heat Transfer **12**(4) 536-542 (Oct-Dec 1998), 4A1336
Localized spatial homogenization and large diffusion, SIAM J Math Anal **29**(6) 1361-1380 (Nov 1998), 4A1354
Steady heat conduction of a material with an array of cylindrical holes in the nonlinear case, IMA J Appl Math **61**(1) 91-102 (Sep 1998), 5A1268
Thermal analysis of solids at high Peclet numbers subjected to moving heat sources, J Heat Transfer **121**(1) 182-186 (Feb 1999), 7A1323
Finite difference schemes for a nonlinear heat equation with functional dependence, Z Angew Math Mech **79**(1) 53-64 (1999), 8A46
Nonequilibrium heating in metal films: An analytical and numerical analysis, Numer Heat Transfer A **35**(8) 859-873 (Jun 1999), 12A1367
Nonlinear inverse heat conduction with a moving boundary: Heat flux and surface recession estimation, J Heat Transfer **121**(3) 708-711 (Aug 1999), 12A1368

406E. Contact resistance

Thermal enhancement coatings for microelectronic systems, J Electron Packaging **120**(3) 229-237 (Sep 1998), 1A1357
Prediction of thermal contact resistance between polished surfaces, Int J Heat Mass Transfer **41**(22) 3469-3482 (Nov 1998), 3A1293
Thermal analysis of a cryomicroscope: Effect of heat spreading and contact resistance, Int J Heat Mass Transfer **41**(23) 3873-3880 (Dec 1998), 3A1294

Thermal modeling of steady state contact resistance between two dissimilar materials, J Franklin Inst **335B**(8) 1493-1506 (Nov 1998), 3A1295

Predicting interfacial contact conductance and gap formation of investment cast alloy 718, J Thermophys Heat Transfer **12**(4) 562-566 (Oct-Dec 1998), 4A1355

Analytical solution for constriction resistance with interstitial fluid in the gap, Heat and Mass Transfer Warme **34**(2-3) 111-119 (Oct 1998), 5A1263

Thermal conductance of cylindrical joints, Int J Heat Mass Transfer **42**(7) 1273-1287 (Apr 1999), 7A1313

Effects of contact and spreading resistance on heat sink cooling performance, J Thermophys Heat Transfer **13**(1) 158-161 (Jan-Mar 1999), 7T1324

Interfacial contact resistance of single-crystal ceramics for solar concentrators, J Thermophys Heat Transfer **13**(1) 110-116 (Jan-Mar 1999), 7A1325

Thermal contact conductance of sintered copper coatings on ferro-alloy, J Heat Transfer **121**(1) 177-182 (Feb 1999), 7T1326

Thermal modeling of roll and strip interface in rolling processes - Part 1: Review, Numer Heat Transfer A **35**(2) 115-133 (Feb 1999), 7A1327

Thermal modeling of roll and strip interface in rolling processes - Part 2: Simulation, Numer Heat Transfer A **35**(2) 135-154 (Feb 1999), 7A1328

Estimation of thermal contact resistance during the first stages of metal solidification process - I: Experiment principle and modelization, Int J Heat Mass Transfer **42**(12) 2119-2127 (Jun 1999), 8A1343

Estimation of thermal contract resistance during the first stages of metal solidification process - II: Experimental setup and results, Int J Heat Mass Transfer **42**(12) 2129-2142 (Jun 1999), 8A1344

Three-dimensional numerical modeling of heat transfer between two sliding bodies: Temperature and thermal contact resistance, Int J Heat Mass Transfer **42**(13) 2363-2374 (Jul 1999), 8A1345

Comparison of effective thermal conductivity and contact conductance of fibrous composites, J Thermophys Heat Transfer **13**(2) 272-276 (Apr-Jun 1999), 10T1340

Thermal contact resistance of silicone rubber to AISI 304 contacts, J Heat Transfer **121**(3) 700-702 (Aug 1999), 12T1369

406F. Anisotropic media

Exact solution of heat conduction in composite materials and application to inverse problems, J Heat Transfer **120**(3) 592-599 (Aug 1998), 1A1327

Effective thermal conductivity of a thin, randomly oriented composite material, J Heat Transfer **120**(4) 971-976 (Nov 1998), 4A1356

Identification of the piecewise homogeneous thermal conductivity of conductors subjected to a heat flow test, Int J Heat Mass Transfer **42**(1) 143-152 (Jan 1999), 5A1264

Numerical solution of periodic heat transfer in an anisotropic cylinder subject to asymmetric heat flux, Heat Transfer Eng **19**(4) 68-74 (Oct-Dec 1998), 5A1265

Temperature field in a microperiodic two-layered composite caused by a circular laser heat source, Heat and Mass Transfer Warme **34**(2-3) 127-133 (Oct 1998), 5A1266

Heat conduction through the support pillars in vacuum glazing, Solar Energy **63**(6) 393-406 (Dec 1998), 6A1376

Evaluation of thermal conductivities of disordered composite media using a fractal model, J Heat Transfer **121**(1) 163-166 (Feb 1999), 7T1329

Thermal conductivity of a material containing a layer of thin strips or a staggered array of thin strips, J Heat Transfer **121**(1) 174-177 (Feb 1999), 7T1330

Comparison of effective thermal conductivity and contact conductance of fibrous composites, J Thermophys Heat Transfer **13**(2) 272-276 (Apr-Jun 1999), 10T1340

Thermal conductivity of cementitious grouts and impact on heat exchanger length design for ground source heat pumps, HVAC&R Res **5**(2) 87-98 (Api 1999), 10A1341

Fiber-spacing effects in the solidification processing of metal matrix composites, Numer Heat Transfer A **35**(6) 587-607 (May 1999), 11A1418

406G. Porous and granular material

Melting of a subcooled mixed powder bed with constant heat flux heating, Int J Heat Mass Transfer **42**(5) 775-788 (Mar 1999), 5A1267

Steady heat conduction of a material with an array of cylindrical holes in the nonlinear case, IMA J Appl Math **61**(1) 91-102 (Sep 1998), 5A1268

Effective thermal conductivity of gas-solid composite materials and the temperature difference effect at high temperature, Int J Heat Mass Transfer **42**(10) 1885-1893 (May 1999), 7A1331

Modified effective thermal conductivity due to heat dispersion in fibrous porous media, Int J Heat Mass Transfer **42**(7) 1237-1254 (Apr 1999), 7A1531

Fractal geometry model for evaluating permeabilities of porous preforms used in liquid composite molding, Int J Heat Mass Transfer **42**(12) 2219-2232 (Jun 1999), 8A1346

Thermodynamic study of liquid transportation in freezing porous media, JSME Int J Ser B **41**(3) 601-609 (Aug 1998), 8A1347

Effective thermal conductivity of high porosity fibrous metal foams, J Heat Transfer **121**(2) 466-471 (May 1999), 9T1372

Experimental and theoretical study of the nonlinear heat conduction in dry porous media, Int J Energy Res **23**(5) 389-401 (Apr 1999), 9A1373

Chemical heat pump using carbon fibers as additive - Part I: Enhancement of thermal conduction, Appl Thermal Eng **19**(9) 991-1000 (Sep 1999), 11A1414

Chemical heat pump using carbon fibers as additive - Part II: Study of constraint parameters, Appl Thermal Eng **19**(9) 1001-1011 (Sep 1999), 11A1415

Heat diffusion in 2D fractals, J Brazilian Soc Mech Sci **21**(1) 133-143 (Mar 1999), 11A1416

Closure model for transient heat conduction in porous media, J Heat Transfer **121**(3) 733-739 (Aug 1999), 12A1370

Departure from local thermal equilibrium in porous media due to a rapidly changing heat source: The Sparrow number, Int J Heat Mass Transfer **42**(18) 3373-3385 (Sep 1999), 12A1520

406H. Multiphase media

Interface propagation in the processing of metal matrix composites, Microscale Thermophys Eng **2**(3) 173-188 (Jul-Aug 1998), 3A1296

Optimal insulation of conductors, J Optim Theory Appl **100**(2) 253-263 (Feb 1999), 9A1367

406I. Phase change (freezing, melting)

Adapting meshes and time-steps for phase change problems, Rendiconti Lincei Matematica e Appl **VIII**(4) 273-292 (1997), 1A1328

Adjoint method for the inverse design of solidification processes with natural convection, Int J Numer Methods Eng **42**(6) 1121-1144 (Jul 1998), 1A1329

Pseudo-steady-state solutions for solidification in a wedge, IMA J Appl Math **60**(2) 109-121 (Apr 1998), 1A1330

Study of the interfacial heat transfer beteen an iron casting and a metallic mold, J Mat Processing Tech **79**(1-3) 25-29 (Jul 1998), 1A1331

Vector-valued phase field model for crystallization and grain boundary formation, Physica D **119**(3-4) 415-423 (Aug 1998), 1A1332

Modeling of solidification structure of continuous cast steel, Model Simulation Mat Sci Eng **6**(3) 237-249 (May 1998), 2A803

New numerical method for solving 1D multiphase problems, J Eng Appl Sci **45**(3) 295-310 (Jun 1998), 2A1291

Convective Cahn-Hilliard model for the formation of facets and corners in crystal growth, Physica D **122**(1-4) 202-230 (Nov 1998), 3A1297

Convergence of the phase field model to its sharp interface limits, European J Appl Math **9**(4) 417-445 (Aug 1998), 3A1298

Finite element formulation for phase-change problems with advective effects, Commun Numer Methods Eng **14**(8) 719-730 (Aug 1998), 3A1299

Linear complementary method for moving boundary problems with phase transformation, J Shanghai Univ **2**(3) 237-240 (Sep 1998), 3A1300

Melting heat transfer characteristics of a horizontal ice cylinder immersed in an immiscible liquid, Heat Transfer Japan Res **27**(5) 336-352 (1998), 3A1301

Layer merging during solidification of supereutectic NH_4Cl-H_2O system, Int J Heat Mass Transfer **41**(22) 3669-3674 (Nov 1998), 3T1349

Determination of unknown thermal coefficients for Storm's-type materials through a phase-change process, Int J Non-Linear Mech **34**(2) 329-340 (Mar 1999), 4A1357

Dilatational curves in the kinetics of phase transformation for the hardening processes of cylindrical machine elements, J Thermal Stresses **21**(7) 727-741 (Oct 1998), 4A1358

Melting and resolidification of a subcooled mixed powder bed with moving Gaussian heat source, J Heat Transfer **120**(4) 883-891 (Nov 1998), 4A1359

One-dimensional phase field models with adaptive grids, J Heat Transfer **120**(4) 956-964 (Nov 1998), 4A1360

Research advances in study of contact melting of phase change materials (Chinese), J Shanghai Jiaotong Univ **32**(7) 105-109 (Jul 1998), 4A1361

Zener factor for diffusion near dendrite tip during constrained solidification (Chinese), J Xi'an Jiaotong Univ **32**(10) 43-46 (1998), 4A1362

Numerical analysis and experimental study on frosting problem of finned-tube evaporators (Chinese), J Shanghai Jiaotong Univ **32**(7) 28-31 (Jul 1998), 4A1383

Melting of a subcooled mixed powder bed with constant heat flux heating, Int J Heat Mass Transfer **42**(5) 775-788 (Mar 1999), 5A1267

Analytical approach to the conduction-dominated solidification of binary mixtures, Int J Heat Mass Transfer **42**(2) 373-377 (Jan 1999), 5T1269

Numerical study of dynamic behavior of melting sample in shear cell under microgravity, Numer Heat Transfer A **34**(7) 709-718 (Nov 1998), 5A1270

Refined solute diffusion model for columnar dendritic alloy solidification, Int J Heat Mass Transfer **41**(24) 4379-4383 (Dec 1998), 5T1271

Solidification fronts and solute trapping in a binary alloy, SIAM J Appl Math **58**(6) 1826-1851 (Dec 1998), 5A1272

Solidification inside a thick cylindrical mold: An experimental study, J Mat Processing Manuf Sci **6**(2) 105-121 (Oct 1997), 5A1273

Solidification problem for the wavy mold, Heat and Mass Transfer Warme **34**(2-3) 181-186 (Oct 1998), 5A1274

Interface response-functions in multi-componental alloy solidification, Physica D **124**(1-3) 271-284 (Dec 1998), 6A1377

Pseudo-transient heat transfer in vertical Bridgman crystal growth of semi-transparent materials, Model Simulation Mat Sci Eng **6**(6) 691-700 (Nov 1998), 6A1378

Numerical modeling of flow in a vertical cooling crystallizer, J Fluids Eng **121**(1) 148-154 (Mar 1999), 7A1312

Implicit method for reconstructing dynamic 3D phase boundaries under low Peclet number conditions, Int J Heat Mass Transfer **42**(10) 1863-1884 (May 1999), 7A1332

Numerical and experimental study on a parallel plate ice bank, Appl Thermal Eng **19**(2) 163-193 (Feb 1999), 7A1333

pvT and thermal shrinkage for the injection molding of a plastic lens, J Reinforced Plastics Composites **18**(3) 261-270 (1999), 8A717

Experimental investigation of nucleation probability of supercooled water inside cylindrical capsules, Exp Thermal Fluid Sci **18**(4) 299-306 (Dec 1998), 8T1337

Two-dimensional solidification and melting in potential flows, J Fluid Mech **378** 1-18 (Jan 1999), 8A1338

Thermodynamic study of liquid transportation in freezing porous media, JSME Int J Ser B **41**(3) 601-609 (Aug 1998), 8A1347

Evolution of flat crystallization front in forced hydrodynamic flow: Some explicit solutions, Physica D **127**(1-2) 33-47 (Mar 1999), 8A1348

Ice and water film growth from incoming supercooled droplets, Int J Heat Mass Transfer **42**(12) 2233-2242 (Jun 1999), 8A1349

Ultrasonic *in-situ* determination of the regression rate of the melting interface in burning metal rods, J Acoust Soc Am **105**(3) 1638-1642 (Mar 1999), 8A1350

Fast convergent and accurate temperature model for phase-change heat conduction, Int J Numer Methods Eng **44**(12) 1863-1884 (Apr 1999), 9A1374

Heat transfer studies during solidification of PCM inside an internally finned tube, J Heat Transfer **121**(2) 493-497 (May 1999), 9T1375

Hysteretic effects in the problems of artificial freezing, SIAM J Appl Math **59**(2) 387-410 (Nov 1998), 9A1376

Large-amplitude solutions to the Sivashinsky and Riley-Davis equations for directional solidification, Physica D **127**(3-4) 146-176 (Mar 1999), 9A1377

Localization of solidification interface in interaction with unsteady melt (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 41-48 (Jan 1999), 9A1378

Microwave thawing of slabs, Appl Math Model **23**(5) 363-383 (May 1999), 9A1379

Numerical solution of single-phase Stefan problem using a fictitious material, Numer Heat Transfer B **35**(2) 211-223 (Mar 1999), 9A1380

One-dimensional phase change with periodic boundary conditions, Numer Heat Transfer A **35**(4) 361-372 (Mar 1999), 9A1381

Stationary Stefan problem with convection governed by a nonlinear Darcy's law, Math Methods Appl Sci **22**(7) 563-585 (May 1999), 9A1382

Three-dimensional evolution of interfaces under evaporation-condensation kinetics: A FE simulation, Model Simulation Mat Sci Eng **7**(1) 87-105 (Jan 1999), 9A1383

Computer simulation of fluid flow and heat transfer in strip casting of aluminum alloys, Appl Mech Eng **3**(3) 479-490 (1998), 10T1342

Effect of inclination on free convection heat transfer during melting of a phase change material in a rectangular enclosure, Appl Mech Eng **3**(3) 491-515 (1998), 10A1343

Evaluation of semi-analytical-empirical freezing time estimation methods - Part I: Regularly shaped food items, HVAC&R Res **5**(2) 151-169 (Api 1999), 10A1344

Evaluation of semi-analytical-empirical freezing time estimation methods - Part II: Irregularly shaped food items, HVAC&R Res **5**(2) 171-187 (Api 1999), 10A1345

Thermal modeling of DC continuous casting including submold boiling heat transfer, Appl Thermal Eng **19**(8) 897-916 (Aug 1999), 10A1346

Classical solvability of the Stefan problem in a viscous incompressible fluid flow, SIAM J Math Anal **30**(3) 584-602 (Mar 1999), 11A1417

Fiber-spacing effects in the solidification processing of metal matrix composites, Numer Heat Transfer A **35**(6) 587-607 (May 1999), 11A1418

Molten droplet solidification and substrate remelting in microcasting - Part I: Numerical modeling and experimental verification, Heat and Mass Transfer Warme **34**(6) 477-485 (Apr 1999), 11A1419

Simulation of solidification structures of binary alloys: A multi-particle diffusion-limited aggregation model with surface rearrangement, Model Simulation Mat Sci Eng **7**(2) 233-252 (Mar 1999), 11A1420

Asymptotic analysis of a 3D Bridgman furnace at large Rayleigh number, Phys Fluids **11**(7) 1827-1846 (Jul 1999), 12A1083

Experimental investigation of the melting process in a rectangular enclosure, Int J Heat Mass Transfer **42**(19) 3659-3672 (Oct 1999), 12A1325

Experiments with constrained chimney-plume flows in the system ammonium chloride-water: Comparison with the unconstrained case, J Fluid Mech **388** 21-48 (Jun 1999), 12A1352

Crystalline version of the modified Stefan problem in the plane and its properties', SIAM J Math Anal **30**(4) 756-786 (Apr 1999), 12A1371

Effect of inviscid stagnation flow on the freezing of fluid: A theoretical analysis, Int J Heat Mass Transfer **42**(19) 3707-3714 (Oct 1999), 12T1372

Fast and accurate numerical approaches for Stefan problems and crystal growth, Numer Heat Transfer B **35**(4) 461-484 (Jun 1999), 12A1373

Model and powder particle heating, melting, resolidification, and evaporation in plasma spraying processes, J Heat Transfer **121**(3) 691-699 (Aug 1999), 12A1374

New nonlinear solution method for phase-change problems, Numer Heat Transfer B **35**(4) 439-459 (Jun 1999), 12A1375

Numerical investigation of solidification processes of cylindrical ingots in a metal mold at variable technological circumstances, Int J Heat Mass Transfer **42**(17) 3351-3359 (Sep 1999), 12A1376

406Y. Computational techniques

Sensitivity analysis for thermophysical property measurements using the periodic method, J Heat Transfer **120**(3) 568-576 (Aug 1998), 1A1282

Blow-up rate for a system of heat equations with nonlinear boundary conditions, Nonlinear Anal **34**(5) 767-778 (Dec 1998), 1T1321

Combination of LTDRM and ATPS in solving diffusion problems, Eng Anal Boundary Elements **21**(3) 285-289 (Apr 1998), 1A1333

Computation of anisotropic conduction using unstructured meshes, J Heat Transfer **120**(3) 583-591 (Aug 1998), 1A1334

Linear inverse model for the temperature-dependent thermal conductivity determination in 1D problems, Appl Math Model **22**(1-2) 1-9 (Jan-Feb 1998), 1A1335

New method for tracking radiative paths in Monte Carlo simulations, J Heat Transfer **120**(3) 792-795 (Aug 1998), 1T1336

Numerical heat transfer in a rectangular duct for a non-Newtonian fluid with shear rate-dependent thermal conductivity and temperature dependent viscosity, Appl Mech Eng **3**(2) 323-337 (1998), 1T1337

Numerical method for heat transfer problems using collocation and radial basis functions, Int J Numer Methods Eng **42**(7) 1263-1278 (Aug 1998), 1A1338

Calculation of sensitivities in thermal control systems with nonlinear inequality constraints, J Spacecraft Rockets **35**(4) 552-558 (Jul-Aug 1998), 2A1292

Characteristics of resistance welding of lap shear coupons - Part I: Heat transfer, Composites Part A Appl Sci and Manuf **29A**(8) 899-909 (1998), 2A1293

Characteristics of resistance welding of lap shear coupons - Part II: Consolidation, Composites Part A Appl Sci and Manuf **29A**(8) 911-919 (1998), 2A1294

Characteristics of resistance welding of lap-shear coupons - Part III: Crystallinity, Composites Part A Appl Sci and Manuf **29A**(8) 921-932 (1998), 2A1295

Differential transformation technique for steady nonlinear heat conduction problems, Appl Math Comput **95**(2-3) 155-164 (Sep 1998), 2A1296

New time marching BE scheme for transient heat transfer with a thermal moving boundary, Eng Anal Boundary Elements **22**(1) 71-75 (Jul 1998), 2A1297

Numerical Green's function for steady-state heat conduction in heterogeneous media, J Eng Mat Tech **120**(4) 284-286 (Oct 1998), 2A1298
Numerical solution of an inverse boundary value problem for the heat equation, Inverse Prob **14**(4) 853-867 (Aug 1998), 2A1299
Reconstruction and advection of a moving interface in 3D on a fixed grid, Numer Heat Transfer B **34**(2) 121-138 (Sep 1998), 3A1267
Classical Galerkin shortcomings on the steady heat conduction simulation in a plate with thermal source, Mech Res Commun **25**(5) 561-567 (Sep-Oct 1998), 3T1287
Shape design sensitivity analysis and optimization for nonlinear heat and electric conduction problems, Numer Heat Transfer A **34**(2) 185-203 (Aug 1998), 3A1292
Analysis of factors that govern the minimum time step size to be used in the FE analysis of diffusion problems, Commun Numer Methods Eng **14**(9) 809-819 (Sep 1998), 3A1302
Application of stochastic method for solving inverse heat conduction problems, Numer Heat Transfer A **34**(3) 331-342 (Aug 1998), 3A1303
Coupling 2D and axisymmetric zones for heat transfer applications in aerospace industry, Eng Anal Boundary Elements **22**(2) 103-110 (Sep 1998), 3A1304
Iterative solution of systems of equations in the dual reciprocity BEM for the diffusion equation, Int J Numer Methods Eng **43**(4) 713-732 (Oct 1998), 3A1305
Mixed covolume methods for elliptic problems on triangular grids, SIAM J Numer Anal **35**(5) 1850-1861 (Oct 1998), 3A1442
One-dimensional phase field models with adaptive grids, J Heat Transfer **120**(4) 956-964 (Nov 1998), 4A1360
Conservative numerical scheme for the energy equation, J Heat Transfer **120**(4) 1081-1086 (Nov 1998), 4T1363
Generalized boundary integral equation for heat conduction in non-homogeneous media: Recent developments on the sifting property, Eng Anal Boundary Elements **22**(3) 221-234 (Oct 1998), 4A1364
Iterative BEM for solving the backward heat conduction problem using an elliptic approximation, Inverse Prob Eng **6**(4) 255-279 (1998), 4A1365
Optimization method for steady conduction in special geometry using a BEM, Int J Numer Methods Eng **43**(6) 1109-1126 (Nov 1998), 4A1366
Reconstitution of a non uniform interface thermal resistance by inverse conduction, Inverse Prob Eng **6**(2) 79-123 (1998), 4A1367
Study on interpolation schemes of the discrete ordinates interpolation method for 3D radiative transfer with nonorthogonal grids, J Heat Transfer **120**(4) 1091-1094 (Nov 1998), 4T1368
Weakly ionized plasma arc heat transfer between geometrically dissimilar electrodes, J Heat Transfer **120**(4) 939-942 (Nov 1998), 4A1369
Adaptive robust weighting input estimation method for the 1-D inverse heat conduction problem, Numer Heat Transfer B **34**(4) 439-456 (Dec 1998), 5A1275
Asymptotic characteristics of the solutions of the diffusion equation with a nonlinear sink: A renormalization group approach, J Appl Math Mech **62**(3) 407-417 (1998), 5A1276
Method of fundamental solutions and quasi-Monte-Carlo method for diffusion equations, Int J Numer Methods Eng **43**(8) 1421-1435 (Dec 1998), 5A1277
Numerical modeling of continuous hybrid heating of cryo-preserved tissue, Int J Heat Mass Transfer **42**(3) 395-403 (Feb 1999), 5A1278
Optimization of the fuel input to an industrial heating plant, Proc Inst Mech Eng C **212**(C7) 605-617 (1998), 5A1279
Preconditioned Richardson numerical method for thermal analysis in X-ray lithography with cylindrical geometry, Numer Heat Transfer A **34**(6) 599-616 (Nov 1998), 5A1280
Application of Taylor transformation to the thermal stresses in isotropic annular fins, J Thermal Stresses **21**(8) 781-809 (Nov 1998), 5A1336
Transient 3D numerical model for thermal analysis in x-ray lithography, Numer Heat Transfer A **34**(8) 805-819 (Dec 1998), 6A1375
Conduction modeling using smoothed particle hydrodynamics, J Comput Phys **148**(1) 227-264 (Jan 1999), 6T1379
Moving grid scheme for multiple moving boundaries, Comput Methods Appl Mech Eng **167**(3-4) 345-353 (Dec 1998), 6A1380
Stability and reconstruction for an inverse problem for the heat equation, Inverse Prob **14**(6) 1429-1453 (Dec 1998), 6A1381
Weak solvability of interior transmission problems via mixed FEs and Dirichlet-to-Neumann mappings, J Comput Appl Math **100**(2) 145-160 (Dec 1998), 6A1382
Variance propagation algorithm for the computation of heat conduction under stochastic conditions, Int J Heat Mass Transfer **42**(8) 1513-1520 (Apr 1999), 7A1316
Space marching method for multidimensional transient inverse heat conduction problems, Heat and Mass Transfer Warme **34**(5) 349-356 (Feb 1999), 7A1321
Thermal modeling of roll and strip interface in rolling processes - Part 2: Simulation, Numer Heat Transfer A **35**(2) 135-154 (Feb 1999), 7A1328
Boundary element scheme for diffusion problems using compactly supported radial basis functions, Eng Anal Boundary Elements **23**(3) 201-209 (Mar 1999), 7A1334
Conservative iterative-based zonal decomposition scheme for conduction heat transfer problems, J Heat Transfer **121**(1) 169-173 (Feb 1999), 7T1335
Finite element method for solution of the 3D time-dependent heat-conduction equation with application for heating of steels in reheating furnaces, Numer Heat Transfer A **35**(2) 155-172 (Feb 1999), 7A1336
Solution of inverse heat conduction problems using control volume approach, Int J Heat Mass Transfer **42**(6) 1123-1140 (Mar 1999), 7A1337
Optimization of material composition of nonhomogeneous hollow circular cylinder for thermal stress relaxation making use of neural network, J Thermal Stresses **22**(1) 1-22 (Jan-Feb 1999), 7A1428
Finite difference schemes for a nonlinear heat equation with functional dependence, Z Angew Math Mech **79**(1) 53-64 (1999), 8A46
Long time existence for the heat equation with a spatially correlated noise term, Stochastic Anal Appl **17**(2) 169-190 (1999), 8T1351
Object oriented implementation of a front tracking FEM for directional solidification processes, Int J Numer Methods Eng **44**(9) 1227-1265 (Mar 1999), 8A1352
Transient algorithms for heat transfer: General developments and approaches for theoretically generating *N*th-order time-accurate operators including practically useful second-order forms, Int J Numer Methods Eng **44**(10) 1545-1572 (Apr 1999), 8A1353
Inverse Problems in Engineering Mechanics (Elsevier Sci BV, Netherlands, 1998) 9N27
Finite-element modeling of heat transfer in carbon-carbon composites, Composites Sci Tech **59**(4) 593-607 (Mar 1999), 9A1384
General BEM method for unsteady nonlinear heat transfer problems, Numer Heat Transfer B **35**(2) 225-242 (Mar 1999), 9A1385
Heat conduction equations for multilayer anisotropic shells, J Thermal Stresses **22**(2) 241-254 (Mar 1999), 9A1386
Higher-order sensitivity of heat conduction problems to random data using the spectral stochastic FEM, J Heat Transfer **121**(2) 290-299 (May 1999), 9A1387
Precise algorithm in the time domain to solve the problem of heat transfer, Numer Heat Transfer B **35**(2) 243-249 (Mar 1999), 9A1388
Weighted residual formulation of a FE with coincident nodes to model the heat transfer at the contact interface between two distinct mediums (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 501-524 (1998), 9A1389
Advanced Computational Methods in Heat Transfer V (Comput Mech, Billerica MA, 1998) 10N30
Design optimization and sensitivity analysis of transient heat transfer problems (Chinese), J Dalian Univ Tech **39**(2) 158-165 (Mar 1999), 10A1337
Development of irregular elements for differential quadrature element method steady-state heat conduction analysis, Comput Methods Appl Mech Eng **170**(1-2) 1-14 (Feb 1999), 10A1347
Numerical analysis of a mixed elliptic problem with flux and convective boundary conditions to obtain a discrete solution of nonconstant sign, Numer Methods PDE **15**(3) 355-369 (May 1999), 10T1348
Numerical solution of the diffusion equation subject to the specification of mass, J Austral Math Soc B **40**(4) 475-483 (Apr 1999), 10A1349
Device temperature and heat generation in power metal-oxide semiconductor field effect transistors, J Thermophys Heat Transfer **13**(2) 185-194 (Apr-Jun 1999), 10A1377
Heat transfer from a stretching surface in micropolar fluid, Appl Mech Eng **4**(1) 25-34 (1999), 11T1421
Simultaneous determination of temperatures, heat fluxes, deformations, and tractions on inaccessible boundaries, J Heat Transfer **121**(3) 537-545 (Aug 1999), 12A1362
Conduction trees with spacings at the tips, Int J Heat Mass Transfer **42**(20) 3739-3756 (Oct 1999), 12A1377
Fully implicit finite differences method for 2D diffusion with a non-local boundary condition, J Comput Appl Math **106**(2) 255-269 (Jun 1999), 12A1378
Shape and topology design for heat conduction by evolutionary structural optimization, Int J Heat Mass Transfer **42**(17) 3361-3371 (Sep 1999), 12A1379

406Z. Experimental techniques

Study of temperature field during plate bending by line heating, J Dalian Univ Tech **38**(4) 392-399 (Jul 1998), 1A1325
Frequency response characteristics of an active heat flux gage, J Heat Transfer **120**(3) 577-582 (Aug 1998), 1A1339
Thermal characterization of honeycomb core sandwich structures, J Spacecraft Rockets **35**(4) 539-545 (Jul-Aug 1998), 2A1300
Detailed heat transfer distribution in two-pass square channels with rib turbulators and bleed holes, Int J Heat Mass Transfer **41**(23) 3781-3791 (Dec 1998), 3A1268
Study of microencapsulated chiral nematics in the presence of electric fields, Int J Heat Mass Transfer **41**(22) 3685-3687 (Nov 1998), 3T1270
Interfacial heat transfer coefficient in hot die forging of titanium alloy, Proc Inst Mech Eng C **212**(C6) 485-496 (1998), 3A1306
Time response characteristics of microcapsulated liquid-crystal particles, Heat Transfer Japan Res **27**(5) 390-398 (1998), 3A1307
Model experiments for the determination of the heat-transfer coefficient and transition thermal analysis in the direct rolling process, J Mat Processing Tech **84**(1-3) 210-224 (Dec 1998), 4A1370
High-heat-flux resistance heaters from VPS and HVOF thermal spraying, Exp Heat Transfer **11**(4) 341-359 (Oct-Dec 1998), 5A1281
Measurement of the thermal diffusivity of thin materials using an infrared thermal wave imaging technique, Heat Transfer Asian Res **28**(2) 89-94 (1999), 8A1354
Measured through-the-thickness thermal diffusivity of carbon fiber reinforced composite materials, J Composite Tech Res **21**(2) 98-102 (Apr 1999), 9A633
Laser weld penetration estimation using temperature measurements, J Manuf Sci Eng **121**(2) 179-188 (May 1999), 9A1390
Measuring thermal conductivity of fluids containing oxide nanoparticles, J Heat Transfer **121**(2) 280-289 (May 1999), 9A1391
Measurement of thermal conductivity using TMDSC: Solution to the heat flow problem, J Reinforced Plastics Composites **18**(6) 559-571 (1999), 11A1422

408. RADIATION AND COMBINED MODES

408B. View factors

Hemi-cube algorithm and its application to thermal analysis of crystal growth furnace, Numer Heat Transfer A **34**(8) 873-885 (Dec 1998), 6A1383
Radiation heat transfer in multitube, alkali-metal thermal-to-electric converter, J Heat Transfer **121**(1) 239-245 (Feb 1999), 7T1338
View factor for ring elements on coaxial cylinders, J Thermophys Heat Transfer **13**(1) 155-158 (Jan-Mar 1999), 7T1339
View factors for a rectangular box by discrete-ordinate method, Heat Transfer Asian Res **28**(2) 129-137 (1999), 8A1355

408C. Theory of radiative properties

Heat Transfer Essentials: A Textbook (Begell House, New York, 1998) 2R30
Heat Transfer Division - 1998, Volume 2: Combustion and Radiation Heat Transfer (ASME, New York, 1998) 7N31
Advances in Heat Transfer, Volume 33 (Academic Press, San Diego CA, 1999) 8N29
Temperature-dependent far-infrared absorptance of thin $YBa_2Cu_3O_{7-\delta}$ films in the normal state, Microscale Thermophys Eng **3**(1) 5-15 (Jan-Mar 1999), 8A1356
Monte Carlo method for simulating the radiative characteristics of an anisotropic medium, Heat Transfer Asian Res **28**(3) 201-210 (1999), 10A1350
Annual Review of Heat Transfer, Volume IX (Begell House, New York, 1998) 12N32

408D. Interchange among surfaces

Radiative heat transfer in a body-fitted axisymmetric cylindrical enclosure, J Thermophys Heat Transfer **12**(4) 596-599 (Oct-Dec 1998), 4T1371
Radiative exchange in a parallel-plate enclosure with translucent protective coatings on its walls, Int J Heat Mass Transfer **42**(1) 73-84 (Jan 1999), 5A1282
Sparrow-Galerkin solution of radiation exchange and transition to FE, Int J Heat Mass Transfer **42**(8) 1353-1362 (Apr 1999), 7A1340
New application of successive approximation to radiative exchange among surfaces: Direct and inverse problems, Int J Heat Mass Transfer **42**(12) 2255-2267 (Jun 1999), 8A1357
Inverse analysis of radiative heat transfer systems, J Heat Transfer **121**(2) 481-484 (May 1999), 9T1392
Application of diffuse-gray enclosure radiation theory to thermal operation of reheating furnace (Chinese), J Shanghai Jiaotong Univ **33**(3) 305-308 (Mar 1999), 12A1380

408E. Involvement of participating media

Comparative study of radiative heat transfer modeling in gas-fired furnaces using the simple grey gas and the weighted-sum-of-grey-gases models, Int J Heat Mass Transfer **41**(22) 3357-3371 (Nov 1998), 3A1308
Effects of coating layer with pigment on the reflectance of external radiation, Numer Heat Transfer A **34**(7) 687-707 (Nov 1998), 5A1283
Short time-scale radiative transfer in light-emitting porous silicon, Int J Heat Mass Transfer **42**(2) 249-261 (Jan 1999), 5A1284
Using hybrid method to analyze radiative heat transfer of isotropic scattering media (Chinese), J Huazhong Univ Sci Tech **26**(10) 84-86 (Oct 1998), 6A1384
Transient heat transfer in a scattering-radiating-conducting layer, J Thermophys Heat Transfer **13**(1) 18-24 (Jan-Mar 1999), 7A1341
Thermal conductivity of polyurethane foams, Int J Heat Mass Transfer **42**(12) 2211-2217 (Jun 1999), 8A1358
Transient thermal analysis of a translucent thermal barrier coating on a metal wall, J Heat Transfer **121**(2) 478-481 (May 1999), 9T1393
Parallelization of the discrete transfer method, Numer Heat Transfer B **35**(2) 137-161 (Mar 1999), 9A1395
Radiative heat transfer in periodic geometries using a finite volume scheme, J Heat Transfer **121**(2) 357-364 (May 1999), 9A1396
Anisotropically scattering media having a reflective upper boundary, J Thermophys Heat Transfer **13**(2) 177-184 (Apr-Jun 1999), 10A1351
Geometric optics applied to rough surfaces coated with an absorbing thin film, J Thermophys Heat Transfer **13**(2) 169-176 (Apr-Jun 1999), 10A1352
Transient coupled radiative and conductive heat transfer in an absorbing, emitting and scattering medium, Int J Heat Mass Transfer **42**(15) 2967-2980 (Aug 1999), 10A1354
Fluid effect on the effective attenuation coefficient of a fully saturated porous medium under laser radiation, Exp Heat Transfer **12**(2) 157-174 (Apr-Jun 1999), 10A1498
Radiative heat transfer in finite cylindrical homogeneous and nonhomogeneous scattering media exposed to collimated radiation, Numer Heat Transfer A **35**(6) 655-679 (May 1999), 11A1423
Scattering of radiation by a fiber with a rough surface, Heat Transfer Asian Res **28**(4) 322-335 (1999), 11A1424
Influence of soot loading on weighted sum of grey gases solutions to the radiative transfer equation across mixtures of gases and soot, Int J Heat Mass Transfer **42**(18) 3469-3480 (Sep 1999), 12A1381
Radiative heat transfer in arbitrary configurations with nongray absorbing, emitting, and anisotropic scattering media, J Heat Transfer **121**(3) 722-726 (Aug 1999), 12A1382

408F. Combined radiation and convection

Forced convection-radiation interaction heat transfer in boundary-layer over a flat plate submersed in a porous medium, Appl Mech Eng **2**(3) 405-413 (1997), 1T1340
Convective and radiative internal heat transfer augmentation with fiber arrays, Int J Heat Mass Transfer **41**(22) 3431-3440 (Nov 1998), 3A1309
Model for radiative cooling of a semitransparent molten glass jet, J Heat Transfer **120**(4) 931-938 (Nov 1998), 4A1372
Numerical analysis of natural convective and radiative heat transfer in an arbitrarily shaped enclosure, Numer Heat Transfer A **34**(5) 553-569 (Oct 1998), 4A1373
Radiative effect on natural convection flows in porous media, Transport Porous Media **32**(3) 263-283 (Sep 1998), 4A1469
Magnetohydrodynamic flow past a plate by the presence of radiation, Heat and Mass Transfer Warme **34**(2-3) 107-109 (Oct 1998), 5A1285

Mixed convection heat transfer in a radially rotating square duct with radiation effects, Int J Heat Mass Transfer **42**(1) 35-47 (Jan 1999), 5A1286

Calculation of radiating flowfield behind a reflected shock wave in air, J Thermophys Heat Transfer **13**(1) 42-49 (Jan-Mar 1999), 7A1342

Computational method for generating the free-surface neck-down profile for glass flow in optical fiber drawing, Numer Heat Transfer A **35**(1) 1-24 (Jan 1999), 7A1343

Probability density function approach to modeling turbulence-radiation interactions in nonluminous flames, Int J Heat Mass Transfer **42**(6) 971-991 (Mar 1999), 7A1344

Radiation effects on laminar mixed convection in an inclined square duct, J Heat Transfer **121**(1) 194-200 (Feb 1999), 7T1345

Spectroscopic measurements of shock-layer flows in an arcjet facility, J Thermophys Heat Transfer **13**(1) 60-67 (Jan-Mar 1999), 7A1346

Stagnation-point heat transfer rates for Pioneer-Venus probes, J Thermophys Heat Transfer **13**(1) 33-41 (Jan-Mar 1999), 7A1347

Microwave thawing of slabs, Appl Math Model **23**(5) 363-383 (May 1999), 9A1379

Numerical analysis of the effect of radiation on laminar steady natural convection in a 2D participating medium between two horizontal confocal elliptical cylinders, Numer Heat Transfer A **35**(5) 467-494 (Apr 1999), 10A1353

Natural convection and radiation heat transfer in a vertical porous layer with a hexagonal honeycomb core - Part 1: Numerical analysis, Heat Transfer Asian Res **28**(4) 278-294 (1999), 11A1382

Natural convection and radiation heat transfer in a vertical porous layer with a hexagonal honeycomb core - Part 2: Heat transfer experiment, Heat Transfer Asian Res **28**(4) 295-306 (1999), 11A1383

Thermally developing Poiseuille flow affected by radiation, Numer Heat Transfer A **35**(6) 681-694 (May 1999), 11A1425

Effect of surface radiation and partition resistance on natural convection heat transfer in a partitioned enclosure: An experimental study, J Heat Transfer **121**(3) 616-622 (Aug 1999), 12A1302

Combined natural convection and volumetric radiation in a horizontal annulus: Spectral and finite volume predictions, J Heat Transfer **121**(3) 610-615 (Aug 1999), 12A1383

Conservative adaptive-mesh algorithm for unsteady, combined-mode heat transfer using the discrete ordinates method, Numer Heat Transfer B **35**(4) 407-430 (Jun 1999), 12A1384

Turbulence-radiation interactions in nonreactive flow of combustion gases, J Heat Transfer **121**(3) 726-729 (Aug 1999), 12T1385

408G. Combined radiation and conduction

Boundary layers and domain decomposition for radiative heat transfer and diffusion equations: Applications to glass manufacturing process, European J Appl Math **9**(4) 351-372 (Aug 1998), 3A1310

Model for the heating of slender samples in monoellipsoidal mirror furnaces, Int J Heat Mass Transfer **41**(22) 3387-3395 (Nov 1998), 3A1311

Unsteady cooling of a solid sphere in a radiatively active medium, Numer Heat Transfer A **34**(2) 119-133 (Aug 1998), 3A1312

Combined conduction and radiation heat transfer in a cylindrical medium, J Thermophys Heat Transfer **12**(4) 605-608 (Oct-Dec 1998), 4T1374

New way of solving transient radiative-conductive heat transfer problems, J Heat Transfer **120**(4) 943-955 (Nov 1998), 4A1375

Radiation-conduction interaction on mixed convection flow along a slender vertical cylinder, J Thermophys Heat Transfer **12**(4) 611-614 (Oct-Dec 1998), 4T1376

Estimation of thermal properties in combined conduction and radiation, Int J Heat Mass Transfer **42**(3) 565-572 (Feb 1999), 5A1287

Effect of nongray gas radiation on thermal stability in carbon dioxide, J Thermophys Heat Transfer **13**(1) 25-32 (Jan-Mar 1999), 7A1245

Monte Carlo method for the simulation of transient radiation heat transfer: Application to compound honeycomb transparent insulation, Numer Heat Transfer B **35**(1) 113-136 (Jan-Feb 1998), 7A1348

Transient thermal analysis of parallel translucent layers by using Green's functions, J Thermophys Heat Transfer **13**(1) 10-17 (Jan-Mar 1999), 7A1349

Thermal conductivity of polyurethane foams, Int J Heat Mass Transfer **42**(12) 2211-2217 (Jun 1999), 8A1358

Transient coupled radiative and conductive heat transfer in an absorbing, emitting and scattering medium, Int J Heat Mass Transfer **42**(15) 2967-2980 (Aug 1999), 10A1354

408H. Combined radiation, convection, and conduction

Satellite Thermal Control for Systems Engineers (AIAA, Reston, VA, 1998) 4R31

Diameter-controlled Czochralski growth of silicon crystals, J Heat Transfer **120**(4) 874-882 (Nov 1998), 4A1377

Local and global simulations of Bridgman and liquid-encapsulated Czochralski crystal growth, J Heat Transfer **120**(4) 865-873 (Nov 1998), 4A1378

Coupled conduction convection and radiation problem for three insulated cables suspended in air, Comput Mech **22**(4) 326-336 (Oct 1998), 5A1288

Radiative component and combined heat transfer in the thermal calculation of finned tube banks, Heat Transfer Eng **20**(1) 41-53 (Jan-Mar 1999), 8A1359

Application of the hybrid method to the transient thermal stresses response in isotropic annular fins, J Appl Mech **66**(2) 340-346 (Jun 1999), 10A1387

Measurement of the thermal resistance of paint coatings using a simple transient cooling method, Proc Inst Mech Eng A **213**(A1) 45-56 (1999), 11A1426

Novel algorithm to investigate conjugate heat transfer in transparent insulation: Application to solar collectors, Numer Heat Transfer A **35**(7) 757-777 (May 1999), 11A1428

408Y. Computational techniques

Monte Carlo method in radiative heat transfer, J Heat Transfer **120**(3) 547-560 (Aug 1998), 1A1341

Thermal radiation effects on boundary layer flow on a continuous porous flat surface, Appl Mech Eng **3**(2) 205-216 (1998), 1A1342

Finite element analysis of a radiation heat transfer problem, J Comput Math **16**(4) 327-336 (Jul 1998), 2A1301

Methodology for internal light sources estimation, Comput Model Simul in Eng **3**(3) 161-169 (Aug 1998), 3A1313

Computationally efficient method for Monte Carlo simulation of diffuse radiant emission or reflection, Int J Heat Mass Transfer **42**(1) 193-195 (Jan 1999), 5T1289

Nonorthogonal finite-volume solutions of radiative heat transfer in a three-dimensional enclosure, Numer Heat Transfer B **34**(4) 419-437 (Dec 1998), 5A1290

Wavelets and discrete ordinates method in solving 1D nongray radiation problem, Int J Heat Mass Transfer **42**(3) 385-393 (Feb 1999), 5A1291

Hemi-cube algorithm and its application to thermal analysis of crystal growth furnace, Numer Heat Transfer A **34**(8) 873-885 (Dec 1998), 6A1383

Sparrow-Galerkin solution of radiation exchange and transition to FE, Int J Heat Mass Transfer **42**(8) 1353-1362 (Apr 1999), 7A1340

Monte Carlo method for the simulation of transient radiation heat transfer: Application to compound honeycomb transparent insulation, Numer Heat Transfer B **35**(1) 113-136 (Jan-Feb 1998), 7A1348

Assessment of the finite-volume method and the discrete ordinate method for radiative heat transfer in a 3D rectangular enclosure, Numer Heat Transfer B **35**(1) 85-112 (Jan-Feb 1998), 7A1350

Numerical solutions of 3D non-grey gas radiative transfer using the statistical narrow-band model, J Heat Transfer **121**(1) 200-203 (Feb 1999), 7A1351

DOTS: Pseudo-time-stepping solution of the discrete ordinate equations, Numer Heat Transfer B **35**(2) 163-183 (Mar 1999), 9A1394

Parallelization of the discrete transfer method, Numer Heat Transfer B **35**(2) 137-161 (Mar 1999), 9A1395

Radiative heat transfer in periodic geometries using a finite volume scheme, J Heat Transfer **121**(2) 357-364 (May 1999), 9A1396

Advanced Computational Methods in Heat Transfer V (Comput Mech, Billerica MA, 1998) 10N30

Effect of radiation on mixed convection boundary layer flow along a vertical cylinder, Appl Mech Eng **3**(3) 393-404 (1998), 10T1355

Analysis of a heat transfer model for situations involving gas and surface radiative heat transfer, Commun Numer Methods Eng **15**(5) 349-365 (May 1999), 11A1427

Novel algorithm to investigate conjugate heat transfer in transparent insulation: Application to solar collectors, Numer Heat Transfer A **35**(7) 757-777 (May 1999), 11A1428

Conservative adaptive-mesh algorithm for unsteady, combined-mode heat transfer using the discrete ordinates method, Numer Heat Transfer B **35**(4) 407-430 (Jun 1999), 12A1384

Discussion of the finite-volume method for radiation, and its application using 3D unstructured meshes, Numer Heat Transfer B **35**(4) 389-405 (Jun 1999), 12A1386

408Z. Experimental techniques

Laboratory testing of radiant gas burners and electric infrared emitters, Exp Heat Transfer **11**(3) 255-279 (Jul-Sep 1998), 3A1314

Sensor element for direct radiation measurement, Solar Energy **63**(2) 125-134 (Aug 1998), 3A1315

Heat transfer analysis and modeling of a cryogenic laser radiometer, J Thermophys Heat Transfer **12**(4) 575-581 (Oct-Dec 1998), 4A1379

Dual beam picosecond continuum technique for measurement of short-time-scale transmission spectra, Exp Heat Transfer **11**(4) 281-297 (Oct-Dec 1998), 5A764

Satellite mesh reflector temperature measured by using fine thermocouples, J Thermophys Heat Transfer **13**(1) 164-165 (Jan-Mar 1999), 7T1352

Design and sensitivity analysis of a new gauge for radiation heat flux assessment, Heat Tech **16**(2) 77-84 (1998), 9A1397

Modified two-sensor-method for the measurement of high gas temperature facing surroundings with different surface temperatures, Combust Sci Tech **139**(1-6) 229-247 (Oct 1998), 10A1456

410. DEVICES AND SYSTEMS

410B. Heat exchangers (recuperator)

Flow-Induced Vibration and Transient Thermal-Hydraulics - 1998 (ASME, New York, 1998) 1N29

Calculations of parallel-flow heat exchangers with linear and nonlinear variability of heat capacity, Arch Thermodyn **18**(1-2) 5-17 (1997), 1A1343

Complementary experimental and numerical study of the flow and heat transfer in offset strip-fin heat exchangers, J Heat Transfer **120**(3) 690-698 (Aug 1998), 1A1344

Heat and moisture transfer in energy wheels during sorption, condensation, and frosting conditions, J Heat Transfer **120**(3) 699-708 (Aug 1998), 1A1345

Second law analysis for balanced heat exchangers with negligible pressure drop irreversibility, J Brazilian Soc Mech Sci **20**(2) 156-163 (Jun 1998), 1A1346

Second-law analysis on wavy plate fin-and-tube heat exchangers, J Heat Transfer **120**(3) 797-800 (Aug 1998), 1T1347

COHEX: A computer model for solving the thermal energy exchange in an ultra high temperature heat exchanger - Part A: Computational theory, Appl Thermal Eng **18**(12) 1263-1276 (Dec 1998), 2A1302

Construction and experimental investigation of a PC-controlled constant superheating expansion valve, Sci Eng J (Ciencia Eng) **7**(1) 66-71 (Jan-Jun 1998), 2A1303

Conjugate heat transfer of a finned oval tube with a punched longitudinal vortex generator in form of a delta winglet: Parametric investigations of the winglet, Int J Heat Mass Transfer **41**(23) 3961-3978 (Dec 1998), 3A1226

Transient analysis of internally heated tubular components with exponential thermal loading and external convection, Int J Heat Mass Transfer **41**(22) 3675-3678 (Nov 1998), 3T1251

Diagnosis method of thermal efficiency for a cogeneration system (Chinese), J Xi'an Jiaotong Univ **32**(9) 60-63 (1998), 3A1316

Effect of longitudinal wall conduction in a three-fluid crossflow heat exchanger, Numer Heat Transfer A **34**(2) 135-150 (Aug 1998), 3A1317

Experiments on heat-regenerative adsorption refrigerator and heat pump, Int J Energy Res **22**(11) 935-941 (Sep 1998), 3A1318

Heat and mass transfer model of a ground heat exchanger: Validation and sensitivity analysis, Int J Energy Res **22**(11) 965-979 (Sep 1998), 3A1319

Investigation of flow maldistribution in a concentric-tube, counterflow, laminar heat exchanger, Heat Transfer Eng **19**(3) 65-75 (Jul-Sep 1998), 3A1320

Optimum dimensions of the continuous plate fin for various tube arrays, Numer Heat Transfer A **34**(2) 151-167 (Aug 1998), 3A1323

Experimental investigation on the performances of airflow across tubes with uneven pitches (Chinese), J Huazhong Univ Sci Tech **26**(S1) 11-14 (May 1998), 4A1307

Heat transfer and pressure loss characteristics of very compact heat sinks with plate fins cooled by jets, Heat Transfer Japan Res **27**(6) 399-414 (1998), 4A1380

Optimization of matching the surfaces of heat exchanger by differential increment analysis, J Huazhong Univ Sci Tech **26**(S1) 8-10 (May 1998), 4A1381

Air-side flow and heat transfer in compact heat exchangers: A discussion of enhancement mechanisms, Heat Transfer Eng **19**(4) 29-41 (Oct-Dec 1998), 5A1292

$CaCo_3$ scaling in AISI 316 stainless steel tubes: Effect of thermal and hydraulic parameters on the induction time and growth rate, Heat and Mass Transfer Warme **34**(2-3) 163-170 (Oct 1998), 5A1293

Combined effects of wall longitudinal heat conduction, inlet fluid flow nonuniformity and temperature nonuniformity in compact tube-fin heat exchangers: A FEM, Int J Heat Mass Transfer **42**(2) 263-273 (Jan 1999), 5A1294

Effect of viscous dissipation on the performance of a recuperator, Int J Energy Res **22**(13) 1199-1204 (Oct 1998), 5A1295

Experimental and 3-D numerical analysis of the thermal-hydraulic characteristics of elliptic finned-tube heat exchangers, Heat Transfer Eng **19**(4) 55-67 (Oct-Dec 1998), 5A1296

Review of solution methods for determining effectiveness-NTU relationships for heat exchangers with complex flow arrangements, Appl Mech Rev **52**(3) 97-117 (Mar 1999), 5A1297

Two- and three-dimensional numerical models of flow and heat transfer over louvred fin arrays in compact heat exchangers, Int J Heat Mass Transfer **41**(24) 4063-4080 (Dec 1998), 5A1298

Engineering Flow and Heat Exchange, Revised Edition (Plenum, New York, 1998) 6R35

Compact bubble absorber design, J Enhanced Heat Transfer **5**(4) 249-256 (1998), 6A1385

COHEX: A computer model for solving the thermal energy exchange in an ultra high temperature heat exchanger - Part B: Validation and results, Appl Thermal Eng **19**(4) 389-398 (Apr 1999), 7A1353

Estimating uncertainty in thermal systems analysis and design, Appl Thermal Eng **19**(1) 51-73 (Jan 1999), 7A1354

Evaporation heat transfer and pressure drop of refrigerant R-134a in a plate heat exchanger, J Heat Transfer **121**(1) 118-127 (Feb 1999), 7A1355

Experimental study of turbulent flow heat transfer and pressure drop in a plate heat exchanger with Chevron plates, J Heat Transfer **121**(1) 110-117 (Feb 1999), 7A1356

Heat transfer and friction correlation for compact louvered fin-and-tube heat exchangers, Int J Heat Mass Transfer **42**(11) 1945-1956 (Jun 1999), 7A1357

Heat transfer and friction correlation for wavy fin-and-tube heat exchangers, Int J Heat Mass Transfer **42**(10) 1919-1924 (May 1999), 7T1358

Influence of particulates on $CaCO_3$ scale formation, J Heat Transfer **121**(1) 225-227 (Feb 1999), 7T1359

Influence of recycle on double-pass heat and mass transfer through a parallel-plate device, Int J Heat Mass Transfer **42**(9) 1707-1722 (May 1999), 7A1360

Investigation of wavy fin-and-tube heat exchangers: A contribution to databank, Exp Heat Transfer **12**(1) 73-89 (Jan-Mar 1999), 7A1361

Numerical study of oscillatory flow and heat transfer in a loaded thermoacoustic stack, Numer Heat Transfer A **35**(1) 49-65 (Jan 1999), 7A1362

Study on uniformity of temperature difference field of heat exchanger (Chinese), J Xi'an Jiaotong Univ **33**(1) 51-54 (1999), 7A1363

Validation of an electronic anti-fouling technology in a single-tube heat exchanger, Int J Heat Mass Transfer **42**(8) 1491-1499 (Apr 1999), 7A1364

Heat transfer through an extended surface containing He II, J Heat Transfer **121**(1) 142-147 (Feb 1999), 7A1367

Anaysis and Design of Energy Systems, Third Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N30

Basic Heat and Mass Transfer, Second Edition (Prentice Hall, Upper Saddle River, NJ, 1999) 8N31

Pressure drop analysis of steam condensation in a plate-heat exchanger, Heat Transfer Eng **20**(1) 71-77 (Jan-Mar 1999), 8A1331

Experimental study of a three-phase, direct-contact heat exchanger, Appl Thermal Eng **19**(5) 477-493 (May 1999), 8A1360

Investigation of heat transfer characteristics on various kinds of fin-and-tube heat exchangers with interrupted surfaces, Int J Heat Mass Transfer **42**(13) 2375-2385 (Jul 1999), 8A1361

Numerical modeling of conduction effects in microscale counterflow heat exchangers, Microscale Thermophys Eng **3**(1) 17-30 (Jan-Mar 1999), 8A1362

Energy wheel effectiveness - Part I: Development of dimensionless groups, Int J Heat Mass Transfer **42**(12) 2161-2170 (Jun 1999), 8A1392

Energy wheel effectiveness - Part II: Correlations, Int J Heat Mass Transfer **42**(12) 2171-2185 (Jun 1999), 8A1393

Numerical investigation of flow field and heat transfer in cross-corrugated ducts, J Heat Transfer **121**(2) 314-321 (May 1999), 9A1325

Applicability of uniform heat flux Nusselt number correlations to thermosyphon heat exchangers for solar water heaters, J Solar Energy Eng **121**(2) 85-90 (May 1999), 9A1398

Case study: Practical application of enhancement device in an ammonia flooded evaporator, J Enhanced Heat Transfer **6**(1) 31-35 (1999), 9A1399
Local flow and heat transfer of a 2-row offset strip fin-tube heat exchanger, J Enhanced Heat Transfer **6**(1) 13-29 (1999), 9A1400
Numerical investigations on enhancement of heat transfer in a compact fin-and-tube heat exchanger using Delta winglet type vortex generators, J Enhanced Heat Transfer **6**(1) 1-11 (1999), 9A1401
Performance evaluation of a radiator in a diesel engine: A case study, Appl Thermal Eng **19**(6) 625-639 (Jun 1999), 9A1402
Flow maldistribution in heat exchangers, Appl Thermal Eng **19**(8) 847-863 (Aug 1999), 10A1356
Influence of torsional vibration on heat transfer in high speed rotating heat exchanger, Arch Thermodyn **19**(1-2) 45-59 (1998), 10A1357
Model of a flow-through heat exchanger for heating systems, Arch Civil Eng **44**(2) 217-244 (1998), 10A1358
Prediction of local thermal contact conductance in plate finned-tube heat exchangers, Inverse Prob Eng **7**(2) 119-141 (1999), 10A1359
Unmixed-air flow model of a spiral coil cooling dehumidifying unit, Appl Thermal Eng **19**(8) 865-883 (Aug 1999), 10A1360
Comparison of a 3D numerical model with existing methods for prediction of flow in shell-and-tube heat exchangers, Heat Transfer Eng **20**(2) 15-19 (Apr-Jun 1999), 11A1429
Control of fouling in a spirally-ribbed water chilled tube with electronic anti-fouling technology, Int J Heat Mass Transfer **42**(16) 3037-3046 (Aug 1999), 11A1430
Numerical study of heat transfer in two-row heat exchangers having extended fin surfaces, Numer Heat Transfer A **35**(7) 797-814 (May 1999), 11A1431
Performance, fouling and cost considerations of enhanced tubes in power-plant condensers, J Enhanced Heat Transfer **6**(2-4) 289-315 (1999), 11A1432
Second-law and experimental analysis of a cross-flow heat exchanger, Heat Transfer Eng **20**(2) 20-27 (Apr-Jun 1999), 11A1433
Surface selection and design of plate-fin heat exchangers, Appl Thermal Eng **19**(9) 917-931 (Sep 1999), 11A1434
Compact Heat Exchangers and Enhancement Technology for the Process Industries (Begell House, New York, 1999) 12N34
New design recommendations for fluidelastic instability in heat exchanger tube bundles, J Fluids Struct **13**(3) 361-379 (Apr 1999), 12T246
Improving the performance of double-pipe heat exchangers by using porous substrates, Int J Heat Mass Transfer **42**(19) 3609-3618 (Oct 1999), 12A1330
Evaporative heat transfer and enhancement performance of serpentine tubes with strip-type inserts using refrigerant-134a, J Heat Transfer **121**(3) 752-757 (Aug 1999), 12T1350
Advantages of plate-type heat exchanger over tube-type heat exchanger for Ocean Thermal Energy Conversion power plant, Int J Offshore Polar Eng **9**(2) 158-159 (Jun 1999), 12T1387
Air-side heat transfer and friction correlations for plain fin-and-tube heat exchangers with staggered tube arrangements, J Heat Transfer **121**(3) 662-667 (Aug 1999), 12A1388
Analysis of local shellside heat and mass transfer in the shell-and-tube heat exchanger with disc-and-doughnut baffles, Int J Heat Mass Transfer **42**(18) 3509-3521 (Sep 1999), 12A1389
Analytical study of evaporator coil in humid environment, Appl Thermal Eng **19**(11) 1129-1145 (Nov 1999), 12A1390
Efficiency of the unit cell in rectangular finned tube arrangements, Appl Thermal Eng **19**(11) 1147-1156 (Nov 1999), 12A1391
Experimental investigation of heat transfer and flow friction characteristics of louvered fin surfaces by the modified single blow technique, Heat and Mass Transfer Warme **35**(1) 53-63 (May 1999), 12A1392
Response of counterflow heat exchangers to step changes of flow rates, J Heat Transfer **121**(3) 746-748 (Aug 1999), 12T1393

410C. Heat exchangers (regenerators)

Calculations of thermal power of a high-rotating regenerative heat exchanger, Arch Thermodyn **18**(1-2) 51-72 (1997), 1A1348
High-speed rotating heat exchangers working in countercurrent sets, Arch Thermodyn **18**(1-2) 115-122 (1997), 1A1349
Thermodynamic analysis of a simple open-flow solar regenerator, Appl Thermal Eng **18**(12) 1359-1374 (Dec 1998), 2A1272
Mixed convection heat transfer and pressure drop correlations for tube-in-shell thermosyphon heat exchangers with uniform heat flux, J Solar Energy Eng **120**(4) 260-269 (Nov 1998), 2A1304
Analysis of a load-side heat exchanger for a solar domestic hot water heating system, J Solar Energy Eng **120**(4) 270-274 (Nov 1998), 2A1506
Comparison of steady state and transient methods for measurement of local heat transfer in plate fin-tube heat exchangers using liquid crystal thermography with radiant heating, Int J Heat Mass Transfer **42**(1) 1-12 (Jan 1999), 5A1299
Experimental evaluation of thermal performance of Gifford-McMahon regenerator using an improved single-blow model with radial conduction, Int J Heat Mass Transfer **42**(3) 405-413 (Feb 1999), 5A1300
Finite element analysis of the flow and heat transfer of solid particles in moving beds, Int J Energy Res **22**(13) 1145-1155 (Oct 1998), 5A1301
Engineering Flow and Heat Exchange, Revised Edition (Plenum, New York, 1998) 6R35
Heat transfer characteristics of a rotary regenerative combustion system (RRX), Heat Transfer Japan Res **27**(8) 584-596 (1998), 6A1442
Pressure-velocity correlation of steady and oscillating flows in regenerators made of wire screens, J Fluids Eng **121**(1) 52-56 (Mar 1999), 7A1076
Cyclic steady thermal response of rapidly switched fixed-bed heat regenerators in counterflow, Int J Heat Mass Transfer **42**(14) 2591-2604 (Jul 1999), 8A1363
Frost formation in rotary heat and moisture exchangers, Int J Heat Mass Transfer **42**(14) 2605-2619 (Jul 1999), 8A1364
Influence of torsional vibration on heat transfer in high speed rotating heat exchanger, Arch Thermodyn **19**(1-2) 45-59 (1998), 10A1357
Influence of leakage distribution on the thermal performance of a rotary regenerator, Appl Thermal Eng **19**(7) 685-705 (Jul 1999), 10A1361
Compact Heat Exchangers and Enhancement Technology for the Process Industries (Begell House, New York, 1999) 12N34
New design recommendations for fluidelastic instability in heat exchanger tube bundles, J Fluids Struct **13**(3) 361-379 (Apr 1999), 12T246
Assessment of thermodynamic performance of HAT cycles (Chinese), J Shanghai Jiaotong Univ **33**(3) 309-312 (Mar 1999), 12A1394
Heat transfer in crossflow regenerators, Int J Heat Mass Transfer **42**(17) 3205-3216 (Sep 1999), 12A1395
Investigation of two-phase flow regimes in tube bundles under cross-flow conditions, Int J Multiphase Flow **25**(5) 857-874 (Aug 1999), 12T1396

410D. Extended surfaces

Application of Taylor transformation to optimize rectangular fins with variable thermal parameters, Appl Math Model **22**(1-2) 11-21 (Jan-Feb 1998), 1A1350
Optimization of finned heat sinks for impingement cooling of electronic packages, J Electron Packaging **120**(3) 259-266 (Sep 1998), 1A1351
Performance analysis of double stack cold plates covering all conditions of asymmetric heat loading, J Electron Packaging **120**(3) 296-301 (Sep 1998), 1A1352
Critical heat flux for finned and unfinned geometries under low flow and low pressure conditions, Nucl Eng Des **183**(3) 235-247 (Jul 1998), 2A1498
Analysis of transient heat transfer in annular fins of various shapes with a base subjected to a decayed exponential function of time in heat flux, Heat Transfer Eng **19**(3) 77-86 (Jul-Sep 1998), 3A1289
Non-Fourier effect on the fin performance under periodic thermal conditions, Appl Math Model **22**(8) 629-640 (Aug 1998), 3A1321
Numerical simulation on convective heat transfer of fully developed laminar flow in wave-like fin tubes (Chinese), J Xi'an Jiaotong Univ **32**(9) 51-55 (1998), 3A1322
Optimum dimensions of the continuous plate fin for various tube arrays, Numer Heat Transfer A **34**(2) 151-167 (Aug 1998), 3A1323
Effect of different parameters on performance of finned-tube evaporators and optimal defrosting period of heat pump (Chinese), J Shanghai Jiaotong Univ **32**(7) 114-116 (Jul 1998), 4A1382
Numerical analysis and experimental study on frosting problem of finned-tube evaporators (Chinese), J Shanghai Jiaotong Univ **32**(7) 28-31 (Jul 1998), 4A1383
Optimization of heat transfer through finned dissipators cooled by laminar flow, Int J Heat Fluid Flow **19**(6) 644-654 (Dec 1998), 4A1384
Review of recent developments in some practical aspects of air-cooled electronic packages, J Heat Transfer **120**(4) 830-839 (Nov 1998), 4A1401
Heat transfer optimization in finned annular ducts under laminar-flow conditions, Heat Transfer Eng **19**(4) 42-54 (Oct-Dec 1998), 5A1176
Optimum profiles for asymmetrical longitudinal fins in cylindrical ducts, Int J Heat Mass Transfer **42**(3) 511-523 (Feb 1999), 5A1180
Experimental and 3-D numerical analysis of the thermal-hydraulic characteristics of elliptic finned-tube heat exchangers, Heat Transfer Eng **19**(4) 55-67 (Oct-Dec 1998), 5A1296
Experimental investigation in heat transfer of triangular and pin fin arrays, Heat and Mass Transfer Warme **34**(2-3) 159-162 (Oct 1998), 5A1302
Overall efficiency of a radial fin assembly under dehumidifying conditions, J Energy Resources Tech **120**(4) 299-304 (Dec 1998), 5A1303
Modeling natural convection from horizontal isothermal annular heat sinks, J Electron Packaging **121**(1) 44-49 (Mar 1999), 7A1232
Investigation of wavy fin-and-tube heat exchangers: A contribution to databank, Exp Heat Transfer **12**(1) 73-89 (Jan-Mar 1999), 7A1361
Critical heat fluxes in flat miniature heat sinks with micro capillary grooves, J Heat Transfer **121**(1) 217-220 (Feb 1999), 7T1365
Fin (on a pipe) effectiveness: 1D and 2D, J Heat Transfer **121**(1) 227-230 (Feb 1999), 7T1366
Heat transfer through an extended surface containing He II, J Heat Transfer **121**(1) 142-147 (Feb 1999), 7A1367
Local flow and heat transfer behavior in convex-louver fin arrays, J Heat Transfer **121**(1) 136-141 (Feb 1999), 7A1368
Performance analysis and optimization of eccentric annular disk fins, J Heat Transfer **121**(1) 128-135 (Feb 1999), 7A1369
Thermoeconomic design and analysis of constant cross-sectional area fins, Heat and Mass Transfer Warme **34**(5) 357-364 (Feb 1999), 7A1370
Heat transfer and pressure drop in pin-fin trapezoidal ducts, J Turbomachinery **121**(2) 264-271 (Apr 1999), 8A1297
Time-dependent calculation procedure for fully developed and developing flow and heat transfer in louvered fin geometries, Numer Heat Transfer A **35**(3) 225-249 (Feb 1999), 8A1299
Application of the Taylor transformation to the transient temperature response of an annular fin, Heat Transfer Eng **20**(1) 78-87 (Jan-Mar 1999), 8A1365
Heat transfer contributions of pins and endwall in pin-fin arrays: Effects of thermal boundary condition modeling, J Turbomachinery **121**(2) 257-263 (Apr 1999), 8A1366
Minimum mass design of radiating radial fin of trapezoidal profile, Heat Transfer Eng **20**(1) 88-90 (Jan-Mar 1999), 8A1367
Optimization of heat sink geometries for impingement air-cooling of LSI packages, Heat Transfer Asian Res **28**(2) 138-151 (1999), 8A1368
Heat transfer enhancement by a multilobe vortex generator in internally finned tubes, Numer Heat Transfer A **35**(5) 553-566 (Apr 1999), 10A1302
Boiling on a conical spine, Exp Heat Transfer **12**(2) 175-191 (Apr-Jun 1999), 10A1362
Problem in cooling fin design, Quart Appl Math **57**(2) 369-380 (Jun 1999), 10A1363
Analytical comparison of constant area, adiabatic tip, standard fins, and heat pipe fins, J Thermophys Heat Transfer **13**(2) 269-272 (Apr-Jun 1999), 10T1364
Coupling of the methods of successive approximations and undetermined coefficients for the prediction of the thermal behavior of uniform circumferential fins, Heat and Mass Transfer Warme **34**(6) 461-468 (Apr 1999), 11A1410
Numerical study of heat transfer in two-row heat exchangers having extended fin surfaces, Numer Heat Transfer A **35**(7) 797-814 (May 1999), 11A1431
Petrochemical industry perspective on Professor Webb's contribution to heat transfer enhancement, J Enhanced Heat Transfer **6**(2-4) 251-262 (1999), 11A1435
Enhanced heat transfer: Endless frontier, or mature and routine, J Enhanced Heat Transfer **6**(2-4) 79-88 (1999), 11A1436
Effects of perpendicular flow entry on convective heat-mass transfer from pin-fin arrays, J Heat Transfer **121**(3) 668-674 (Aug 1999), 12A1283
Experimental study on the pressure drop and heat transfer characteristics of tubes with internal wave-like longitudinal fins, Heat and Mass Transfer Warme **35**(1) 65-73 (May 1999), 12A1293
Experiments on chimney-enhanced free convection, J Heat Transfer **121**(3) 603-609 (Aug 1999), 12A1303
Air-side heat transfer and friction correlations for plain fin-and-tube heat exchangers with staggered tube arrangements, J Heat Transfer **121**(3) 662-667 (Aug 1999), 12A1388
Experimental investigation of heat transfer and flow friction characteristics of louvered fin surfaces by the modified single blow technique, Heat and Mass Transfer Warme **35**(1) 53-63 (May 1999), 12A1392
Constructal trees of circular fins for conductive and convective heat transfer, Int J Heat Mass Transfer **42**(19) 3585-3597 (Oct 1999), 12A1397
Constructal trees of convective fins, J Heat Transfer **121**(3) 675-682 (Aug 1999), 12A1398
Heat transfer in fin assemblies: Significance of 2D effects - A reexamination of the issue, J Heat Transfer **121**(3) 748-752 (Aug 1999), 12A1399

410E. Other augumentation techniques

Direct numerical simulation of 3D flow and augmented heat transfer in a grooved channel, J Heat Transfer **120**(3) 717-723 (Aug 1998), 1A1289
Heat transfer coefficient enhancement with perforated baffles, J Heat Transfer **120**(3) 795-797 (Aug 1998), 1T1292
Heat transfer-friction characteristic comparison in rectangular ducts with slit and solid ribs mounted on one wall, J Heat Transfer **120**(3) 709-716 (Aug 1998), 1A1293
Avionics passive cooling with microencapsulated phase change materials, J Electron Packaging **120**(3) 238-242 (Sep 1998), 1A1353
Enhancement of heat transfer in compact heat exchanger by different type of rib with holographic interferometry, Exp Thermal Fluid Sci **17**(4) 339-346 (Aug 1998), 1T1354
Heat transfer augmentation for air jet impinged on a rough surface, Appl Thermal Eng **18**(12) 1225-1241 (Dec 1998), 2A1274
Heat transfer enhancement in 3D corrugated channel flow, Int J Heat Mass Transfer **41**(22) 3559-3573 (Nov 1998), 3A1230
Enhancement of heat transfer in an inviscid-flow thermal boundary layer due to a Rankine vortex, Int J Heat Mass Transfer **41**(23) 3829-3840 (Dec 1998), 3A1324
Oscillation-controlled heat-transport tube: Heat transfer coefficient in tubes in heating and cooling regions, Heat Transfer Japan Res **27**(6) 415-430 (1998), 4A1312
Optimization of the outlet gas temperature parameter of waste heat boilers (Chinese), J Huazhong Univ Sci Tech **26**(7) 91-93 (Sep 1998), 4A1385
Thermal and hydraulic performance of a rectangular duct with multiple V-shaped ribs, J Heat Transfer **120**(4) 1072-1077 (Nov 1998), 4A1386
Heat and momentum transfer in fluids heated in tubes with turbulence generators at moderate Prandtl and Reynolds numbers, Int J Heat Mass Transfer **42**(4) 613-627 (Feb 1999), 5A1174
Heat transfer enhancement of a finned oval tube with punched longitudinal vortex generators in-line, Int J Heat Mass Transfer **41**(24) 4151-4166 (Dec 1998), 5A1175
Experimental study on augmented heat transfer of elastic coiled tube bundles by flow-induced vibration (Chinese), J Huazhong Univ Sci Tech **26**(11) 85-87 (Nov 1998), 5A1304
Fluid mixing and local mass transfer characteristics in a grooved channel for self-sustained oscillatory flow, Heat Transfer Japan Res **27**(7) 522-534 (1998), 5A1343
Optimization of trailing edge ejection mixing losses: A theoretical and experimental study, J Fluids Eng **121**(1) 118-125 (Mar 1999), 7A1156
Heat transfer characteristics of an axisymmetric jet impinging on the rib-roughened convex surface, Int J Heat Mass Transfer **42**(11) 2101-2110 (Jun 1999), 7T1209
Correlation of fully developed heat transfer and pressure drop in a symmetrically grooved channel, J Heat Transfer **121**(1) 236-239 (Feb 1999), 7T1215
Experimental study of heat transfer in reciprocating square duct fitted with ribs skewed to the flow, J Heat Transfer **121**(1) 232-236 (Feb 1999), 7T1219
Heat transfer coefficient and friction factor correlations for the transitional flow regime in rib-roughened rectangular ducts, Int J Heat Mass Transfer **42**(9) 1597-1615 (May 1999), 7A1222
Heat transfer enhancement due to self-sustained oscillating transverse vortices in channels with periodically mounted rectangular bars, Int J Heat Mass Transfer **42**(11) 2053-2062 (Jun 1999), 7A1223
Measurements of heat transfer and fluid flow in a rectangular duct with alternate attached-detached rib-arrays, Int J Heat Mass Transfer **42**(11) 2071-2083 (Jun 1999), 7A1226
Heat transfer enhancement generated by the chimney effect in systems of vertical channels, J Heat Transfer **121**(1) 230-232 (Feb 1999), 7T1240
Effect of an oblique plate on the heat transfer enhancement of mixed convection over heated blocks in a horizontal channel, Int J Heat Mass Transfer **42**(7) 1217-1235 (Apr 1999), 7A1248
Single-phase heat transfer enhancement in a curved, rectangular channel subjected to concave heating, Int J Heat Mass Transfer **42**(7) 1255-1272 (Apr 1999), 7A1263
Forced convection heat transfer augmentation in a channel with a localized heat source using fibrous materials, J Electron Packaging **121**(1) 1-7 (Mar 1999), 7A1272
Buoyant convection in a non-rectangular cavity with non-vertical insulating sidewalls, Int J Heat Mass Transfer **42**(11) 2111-2217 (Jun 1999), 7T1371
Heat transfer efficiency of metal honeycombs, Int J Heat Mass Transfer **42**(11) 2031-2040 (Jun 1999), 7A1372
Boiling liquid nitrogen heat transfer in channels with porous copper inserts, Int J Heat Mass Transfer **42**(7) 1189-1204 (Apr 1999), 7A1527

Experimental study of slot jet impingement cooling on concave surface: Effects of nozzle configuration and curvature, Int J Heat Mass Transfer **42**(12) 2199-2209 (Jun 1999), 8A1283
45° round-corner rib heat transfer coefficient measurements in a square channel, J Turbomachinery **121**(2) 272-280 (Apr 1999), 8A1291
Comparative study of thermal design correlations for turbulent flow in helical-enhanced tubes, Heat Transfer Eng **20**(1) 54-70 (Jan-Mar 1999), 8A1293
Secondary flow and enhancement of heat transfer in horizontal parallel-plate and convergent channels heating from below, Int J Heat Mass Transfer **42**(14) 2629-2647 (Jul 1999), 8A1312
Determining functional reliability of pyrotechnic mechanical devices, AIAA J **37**(3) 357-363 (Mar 1999), 8A1369
Alleviating aural discomfort of passengers on Shinkansen by controlling airflow rate in ventilation system, JSME Int J Ser B **41**(4) 936-944 (Nov 1998), 8T1372
Heat transfer enhancement of turbulent duct flow by vortex generators attached to a large eddy break-up manipulator, Heat Transfer Asian Res **28**(3) 189-200 (1999), 10A1303
Effects of vertical fins on local heat transfer performance in a horizontal fluid layer, Int J Heat Mass Transfer **42**(15) 2897-2903 (Aug 1999), 10A1307
Enhancement of convective heat transfer in rib-roughened rectangular ducts, J Enhanced Heat Transfer **6**(2-4) 89-103 (1999), 11A1350
Numerical investigation of turbulent flow and heat transfer in internally finned tubes, J Enhanced Heat Transfer **6**(2-4) 105-119 (1999), 11A1352
Passive heat transfer augmentation in a cylindrical annulus utilizing multiple perturbations on the inner and outer cylinders, Numer Heat Transfer A **35**(6) 567-586 (May 1999), 11A1361
Conjugate heat transfer in an inclined slab with an array of horizontal circular channels, Numer Heat Transfer A **35**(7) 779-796 (May 1999), 11A1366
Heat transfer to liquid drops passing through an immiscible liquid medium between tilted parallel-plate electrodes, Int J Heat Mass Transfer **42**(16) 3113-3129 (Aug 1999), 11A1406
Petrochemical industry perspective on Professor Webb's contribution to heat transfer enhancement, J Enhanced Heat Transfer **6**(2-4) 251-262 (1999), 11A1435
Enhanced heat transfer: Endless frontier, or mature and routine, J Enhanced Heat Transfer **6**(2-4) 79-88 (1999), 11A1436
Enhanced heat transfer in tight space: A frontier for thermal management of microelectronic equipment, J Enhanced Heat Transfer **6**(2-4) 121-133 (1999), 11A1442
Free jet impingement heat transfer of a high Prandtl number fluid under conditions of highly varying properties, J Heat Transfer **121**(3) 592-597 (Aug 1999), 12A1284
Augmented heat transfer in a triangular duct by using multiple swirling jets, J Heat Transfer **121**(3) 683-690 (Aug 1999), 12A1289
Effect of streamwise vortices on the frost growth rate in developing laminar channel flows, Int J Heat Mass Transfer **42**(20) 3787-3802 (Oct 1999), 12A1290
Heat and mass transfer problems for film cooling, J Heat Transfer **121**(3) 509-527 (Aug 1999), 12A1294
Enhanced boiling heat transfer on a compact tube array (Chinese), J Shanghai Jiaotong Univ **33**(3) 289-291 (Mar 1999), 12A1341
Heat transfer augmentation of mist spraying air cooler (Chinese), J Shanghai Jiaotong Univ **33**(3) 313-317 (Mar 1999), 12A1346
Enhancement of liquid forced convection heat transfer in microchannels due to the release of dissolved noncondensables, Int J Heat Mass Transfer **42**(19) 3563-3573 (Oct 1999), 12A1400
Thermodynamical performance calculation and application for enhanced convective heat transfer inside tubes based on Webb's index (Chinese), J Shanghai Jiaotong Univ **33**(3) 377-379 (Mar 1999), 12A1401

410F. Heat pipes

Numerical analysis of heat pipe turbine vane cooling, J Eng Gas Turbines Power **120**(4) 735-743 (Oct 1998), 2A1305
Satellite Thermal Control for Systems Engineers (AIAA, Reston, VA, 1998) 4R31
Heat transport capacity of micro heat pipes, J Heat Transfer **120**(4) 1064-1071 (Nov 1998), 4A1387
Disjoining pressure effect on the wetting characteristics in a capillary tube, Microscale Thermophys Eng **2**(4) 283-297 (Oct-Dec 1998), 5A1305
Heat transfer characteristics of inclined evaporator section for separate-type heat pipe (Chinese), J Xi'an Jiaotong Univ **32**(11) 36-39 (1998), 5A1306
Heat Transfer Division - 1998, Volume 3: Application of Heat Transfer in Equipment, Systems, and Education (ASME, New York, 1998) 7N32
Analysis of supercritical startup behavior for cryogenic heat pipes, J Thermophys Heat Transfer **13**(1) 140-145 (Jan-Mar 1999), 7A1373
Compatibility test and residual gas analysis on 4130 steel and methanol thermosyphons, J Thermophys Heat Transfer **13**(1) 146-152 (Jan-Mar 1999), 7A1374
Experimental investigation on the hysteresis effect in vertical two-phase closed thermosyphons, Appl Thermal Eng **19**(4) 399-408 (Apr 1999), 7A1375
Flat miniature heat pipes with micro capillary grooves, J Heat Transfer **121**(1) 102-109 (Feb 1999), 7A1376
Geothermal convector: Experimental and numerical results, Appl Thermal Eng **19**(4) 349-374 (Apr 1999), 7A1377
Heat transfer in micro region of a rotating miniature heat pipe, Int J Heat Mass Transfer **42**(8) 1363-1369 (Apr 1999), 7A1378
Prediction of the operating limits of revolving helically grooved heat pipes, J Heat Transfer **121**(1) 213-217 (Feb 1999), 7T1379
Startup and transient performance of a Nb-1%Zr potassium heat pipe, J Thermophys Heat Transfer **13**(1) 153-155 (Jan-Mar 1999), 7T1380
Startup time reduction in an electrohydrodynamically enhanced capillary pumped loop, J Thermophys Heat Transfer **13**(1) 134-139 (Jan-Mar 1999), 7A1381
Analyses of radially rotating high-temperature heat pipes for turbomachinery applications, J Eng Gas Turbines Power **121**(2) 306-312 (Apr 1999), 8A1370
Heat and mass transfer with phase change in a porous structure partially heated: Continuum model and pore network simulations, Int J Heat Mass Transfer **42**(14) 2557-2569 (Jul 1999), 8A1371
Temperature response of heat transport in a micro heat pipe, J Heat Transfer **121**(2) 438-445 (May 1999), 9A1403
Analytical comparison of constant area, adiabatic tip, standard fins, and heat pipe fins, J Thermophys Heat Transfer **13**(2) 269-272 (Apr-Jun 1999), 10T1364
Experimental study of the utilization of heat pipes for solar water heaters, Appl Thermal Eng **19**(8) 807-817 (Aug 1999), 10A1365
Development of an isothermal journal bearing employing heat-pie cooling technology, Trib Trans **42**(2) 401-406 (Apr 1999), 11A1437
Thermal performance of a compact two-phase thermosyphon: Response to evaporator confinement and transient loads, J Enhanced Heat Transfer **6**(2-4) 279-288 (1999), 11A1438
Analyses of heat-pipe cooled isothermal journal bearings, J Trib **121**(3) 546-552 (Jul 1999), 12A1402
Analysis of cylindrical heat pipes incorporating the effects of liquid-vapor coupling and non-Darcian transport: A closed form solution, Int J Heat Mass Transfer **42**(18) 3405-3418 (Sep 1999), 12A1403

410G. Drying and freezing

Design and testing of solar dryers for processing food wastes, Appl Thermal Eng **18**(12) 1337-1346 (Dec 1998), 2A1306
Heat and mass transfer simulations of the absorption process in a packed bed absorber, Appl Thermal Eng **18**(12) 1295-1308 (Dec 1998), 2A1307
Conjugate heat and mass transfer in convective drying of porous media, Numer Heat Transfer A **34**(2) 105-117 (Aug 1998), 3A1254
Efficient simulation of the heat and mass transfer processes during drying of capillary porous, hygroscopic materials, Int J Heat Mass Transfer **41**(22) 3611-3625 (Nov 1998), 3A1325
Temperature gradients and heat flux measurements in hot pressing of paper, Exp Heat Transfer **11**(3) 221-240 (Jul-Sep 1998), 3A1326
Stress-driven diffusion in a drying liquid paint layer, European J Appl Math **9**(5) 447-461 (Oct 1998), 5A1307
Simulation model of the thermal performance of a natural convection-type solar tunnel dryer, Int J Energy Res **22**(13) 1165-1177 (Oct 1998), 5A1527
Radio frequency assisted heat pump drying of crushed brick, Appl Thermal Eng **19**(4) 375-388 (Apr 1999), 7A1382
Analysis of the drying process on unsteady forced convection in thin films of ink, Appl Thermal Eng **19**(6) 641-657 (Jun 1999), 9A1404
Energy efficient combined superheated steam dryer-MED, Appl Thermal Eng **19**(6) 659-668 (Jun 1999), 9A1405
Numerical analysis of the temperature field in typical cold room foundation, Arch Thermodyn **19**(1-2) 103-120 (1998), 10A1366
Reverse process of superheated steam drying from condensation to evaporation, Heat Transfer Asian Res **28**(5) 352-366 (1999), 12A1404
Mechanism and mathematical model of heat and mass transfer during convective drying of porous materials, Heat Transfer Asian Res **28**(5) 337-351 (1999), 12A1525

410H. Insulation

Effect of latent heat phenomena on thermal insulation and inside climate of greenhouses, J Thermal Envelope Build Sci **22** 9-31 (Jul 1998), 4A1388
Heat and mass transfer in polyurethane insulated district cooling and heating pipes, J Thermal Envelope Build Sci **22** 49-71 (Jul 1998), 4A1389
Introduction of a new crossover radius for radial heat conduction - Part I: Cylindrical systems, J Thermal Envelope Build Sci **22** 72-88 (Jul 1998), 4A1390
Performance predictions for masonry walls with inside insulation using calculation procedures and laboratory testing, J Thermal Envelope Build Sci **22** 32-48 (Jul 1998), 4A1391
Gas permeability of rigid fibrous refractory insulations, J Thermophys Heat Transfer **12**(4) 528-535 (Oct-Dec 1998), 4A1456
Blistering of hot applied bituminous built-up roof membranes over plastic foam insulations, J Thermal Envelope Build Sci **22** 147-155 (Oct 1998), 5T1308
Simplified model for aging of gas-filled thermal insulating foams, J Thermal Envelope Build Sci **22** 110-131 (Oct 1998), 5A1309
Damage to thermal insulation foams in low-slope roof systems caused by simulated foot traffic, J Thermal Envelope Build Sci **22** 303-314 (Apr 1999), 10A1367
Estimation of design temperature for road tunnel heat insulator (Japanese), Proc JSCE **616**(VI-42) 103-110 (Mar 1999), 11T1439

410I. Environmental conditioning and control

Evaluation of the performance of an absorption-demixtion heat pump for upgrading thermal waste heat, Appl Thermal Eng **18**(12) 1277-1294 (Dec 1998), 2A1308
Experimental study of the heat and mass transfer in a packed bed liquid desiccant air dehumidifier, J Solar Energy Eng **120**(4) 289-297 (Nov 1998), 2A1309
Heat recovery system to power an on-board NH$_3$-H$_2$O absorption refrigeration plant in trawler chiller fishing vessels, Appl Thermal Eng **18**(12) 1189-1205 (Dec 1998), 2A1310
Pumping characteristics of a thermosyphon applied for absorption refrigerators with working pair of LiBr-water, Appl Thermal Eng **18**(12) 1309-1323 (Dec 1998), 2A1311
Numerical study of solar chimney for natural ventilation of buildings with heat recovery, Appl Thermal Eng **18**(12) 1171-1187 (Dec 1998), 2A1510
Experiments on heat-regenerative adsorption refrigerator and heat pump, Int J Energy Res **22**(11) 935-941 (Sep 1998), 3A1318
Heat and mass transfer in a falling film absorber of ammonia-water absorption systems, Heat Transfer Eng **19**(3) 53-63 (Jul-Sep 1998), 3A1327
Non-absorbable gas effect on the wavy film absorption process, Int J Heat Mass Transfer **41**(22) 3657-3668 (Nov 1998), 3A1328
Optimal performance of double-effect series flow vapor absorption refrigeration systems with new working fluids, Int J Energy Res **22**(11) 1001-1017 (Sep 1998), 3A1329
Performance of some zeotropic mixtures as alternative refrigerants to R22 and R502, Int J Energy Res **22**(12) 1065-1073 (Oct 1998), 3A1330
Unsteady temperature distributions in vertical storage tanks heated with heat pumps, Heat Transfer Eng **19**(3) 43-52 (Jul-Sep 1998), 3A1331
Control of household refrigerators - Part I: Modeling temperature control performance, HVAC&R Res **4**(4) 427-443 (Oct 1998), 4A1392
Control of household refrigerators - Part II: Alternate control approaches for improving temperature performance and reducing energy use, HVAC&R Res **4**(4) 445-464 (Oct 1998), 4A1393
Evaluating the performance of a fault detection and diagnostic system for vapor compression equipment, HVAC&R Res **4**(4) 401-425 (Oct 1998), 4A1394
Heat transfer analysis of air-to-carbon dioxide two-phase heat absorption and supercritical heat rejection, HVAC&R Res **4**(4) 327-345 (Oct 1998), 4A1395
Model reduction method for calculating thermal response factors of multi-layer walls (Chinese), J Shanghai Jiaotong Univ **32**(7) 14-17 (Jul 1998), 4A1396
Numerical researches on 3D gas-solid coupled heat transfer and flow in indirect-cool refrigerator (Chinese), J Shanghai Jiaotong Univ **32**(7) 23-27 (Jul 1998), 4A1397
Simulation of air flow and temperature field inside a refrigerated chamber with FEM (Chinese), J Shanghai Jiaotong Univ **32**(7) 18-22 (Jul 1998), 4A1398
New math model for designing engine radiator, J Beijing IT 7(2) 141-145 (Jun 1998), 5A865
Feasibility study of steam-jet refrigeration, Int J Energy Res **22**(15) 1323-1336 (Dec 1998), 5A1310
Hygrothermal performance of a new light gauge steel-framed envelope system, J Thermal Envelope Build Sci **22** 169-182 (Oct 1998), 5T1311
Hygrothermal performance of attics, J Thermal Envelope Build Sci **22** 132-146 (Oct 1998), 5T1312
Investigation on adsorption refrigeration with a single adsorbent bed, Int J Energy Res **22**(13) 1157-1163 (Oct 1998), 5A1313
Performance analysis of a refrigeration cycle using a direct contact evaporator, Int J Energy Res **22**(13) 1179-1190 (Oct 1998), 5A1314
Performance analysis of an irreversible cogeneration heat pump cycle, Int J Energy Res **22**(14) 1299-1304 (Nov 1998), 5A1315
Performance characteristics of a compressor-driven metal hydride refrigerator, J Energy Resources Tech **120**(4) 305-313 (Dec 1998), 5A1316
Thermal analysis of roof-spray cooling, Int J Energy Res **22**(15) 1337-1350 (Dec 1998), 5A1317
WinSim: Simple simulation program for evaluating the influence of windows on heating demand and risk of overheating, Solar Energy **63**(4) 251-258 (Oct 1998), 5A1318
Advanced Energy Systems Division - 1998 (ASME, New York, 1998) 6N36
Continuous heat regenerative adsorption refrigerator using spiral plate heat exchanger as adsorbers: Improvements, J Solar Energy Eng **121**(1) 14-19 (Feb 1999), 6A1386
Dehumidification and simultaneous removal of selected pollutants from indoor air by a desiccant wheel using a 1M type desiccant, J Solar Energy Eng **121**(1) 1-13 (Feb 1999), 6A1387
Development of an inverse method to estimate overall building and ventilation parameters of large commercial buildings, J Solar Energy Eng **121**(1) 40-46 (Feb 1999), 6A1388
Evaluation of implicit numerical methods for building energy simulation, Proc Inst Mech Eng A **212**(A5) 331-342 (1998), 6A1389
Experimental study of flow instability in a natural circulation system with subcooled boiling, J Tsinghua Univ Sci Tech **38**(7) 62-65 (Jul 1998), 6A1390
Feasibility study of a solar desiccant air-conditioning system - Part I: Psychrometrics and analysis of the conditioned zone, Int J Energy Res **23**(1) 7-21 (Jan 1999), 6A1546
Fourier series model to predict hourly heating and cooling energy use in commercial buildings with outdoor temperature as the only weather variable, J Solar Energy Eng **121**(1) 47-53 (Feb 1999), 6A1556
Criterion for predicting the possible advantage of adopting a suction-liquid heat exchanger in refrigerating system, Appl Thermal Eng **19**(4) 329-336 (Apr 1999), 7A1169
Effects of contact and spreading resistance on heat sink cooling performance, J Thermophys Heat Transfer **13**(1) 158-161 (Jan-Mar 1999), 7T1324
Effect of diffuser's location on thermal comfort analysis with different air distribution strategies, J Thermal Envelope Build Sci **22** 208-229 (Jan 1999), 7A1383
Effects of adsorbent conductivity and permeability on the performance of a solid sorption heat pump, J Energy Resources Tech **121**(1) 51-59 (Mar 1999), 7A1384
Effects of coupled heat and mass transfers in adsorbent on the performance of a waste heat adsorption cooling unit, Appl Thermal Eng **19**(2) 195-215 (Feb 1999), 7A1385
Effects of evaporator frosting on the performance of an air-to-air heat pump, J Energy Resources Tech **121**(1) 60-65 (Mar 1999), 7A1386
Examination of the performance of a compression-driven adsorption cooling cycle, Appl Thermal Eng **19**(1) 1-20 (Jan 1999), 7A1387
Feasibility study of a solar desiccant air-conditioning system - Part II: Transient simulation and economics, Int J Energy Res **23**(2) 103-116 (Feb 1999), 7A1388
Fluid mechanics of natural ventilation, Annu Rev Fluid Mech **31** 201-238 (1999), 7A1389
Influence of the adsorber heat exchanger design on the performance of the heat pump system, Appl Thermal Eng **19**(3) 255-269 (Mar 1999), 7A1390
Kinetic feasibility of a chemical heat pump for heat utilization of high-temperature processes, Appl Thermal Eng **19**(3) 239-254 (Mar 1999), 7A1391
Novel solvent separation process with integrated open-cycle absorption refrigeration, Appl Thermal Eng **19**(4) 337-347 (Apr 1999), 7A1392
Performance evaluation of absorption chiller using LiBr + H$_2$N(CH$_2$)$_2$OH + H$_2$O, LiBr + HO(CH$_2$)$_3$OH + H$_2$O, and LiBr + (HOCH$_2$CH$_2$)$_2$NH + H$_2$O as working fluids, Appl Thermal Eng **19**(2) 217-225 (Feb 1999), 7A1393
Prediction of on-coil temperature of condensers installed at tall building re-entrant, Appl Thermal Eng **19**(2) 117-132 (Feb 1999), 7A1394
Proposal of a chemical heat pump with paraldehyde depolymerization for cooling system, Appl Thermal Eng **19**(2) 133-143 (Feb 1999), 7A1395
Thermodynamic analysis and modeling of an adsorption-cycle system for refrigeration from low-grade energy sources, J Brazilian Soc Mech Sci **20**(4) 518-531 (Dec 1998), 7A1396

Alleviating aural discomfort of passengers on Shinkansen by controlling airflow rate in ventilation system, JSME Int J Ser B **41**(4) 936-944 (Nov 1998), 8T1372
Effect of non-condensable gases on the performance of film absorbers in vapor absorption systems, Appl Thermal Eng **19**(5) 531-541 (May 1999), 8A1373
Experimental integrated absorption heat pump effluent purification system - Part I: Operating on water-lithium bromide solutions, Appl Thermal Eng **19**(5) 461-475 (May 1999), 8A1374
Numerical and experimental study of thermal distribution inside air-conditioned automobile chamber, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 12-17 (Dec 1998), 8A1375
Solid-gas equilibrium in chemical heat pumps: The NH_3-$CoCl_2$ system, Appl Thermal Eng **19**(5) 495-511 (May 1999), 8A1376
Study of free piston vuilleumier heat pump: Basic performance analysis, JSME Int J Ser B **40**(4) 617-625 (Nov 1997), 8T1377
Experimental analysis of adiabatic capillary tubes, Appl Thermal Eng **19**(6) 669-684 (Jun 1999), 9A1406
Thermal analysis of a radiant floor heating system using SERI-RES, Int J Energy Res **23**(4) 335-343 (Mar 1999), 9A1407
Variable air volume ventilation control strategies analyzed in six climate zones, Int J Energy Res **23**(5) 371-387 (Apr 1999), 9A1408
Envelope and indoor thermal capacitance of buildings, Appl Thermal Eng **19**(7) 743-756 (Jul 1999), 10A1338
Correlations between structure dependent and dynamic thermal characteristics of building walls, J Thermal Envelope Build Sci **22** 315-333 (Apr 1999), 10A1368
Heat transfer modeling of screenhouses, Solar Energy **65**(5) 271-284 (Apr 1999), 10A1369
New methodology for greenhouse gas reduction in industry through improved heat exchanging and/or integration of combined heat and power, Appl Thermal Eng **19**(7) 707-731 (Jul 1999), 10A1370
Performance of some substitutes for HCFC22 under varying operating conditions, Appl Thermal Eng **19**(7) 801-806 (Jul 1999), 10A1371
Relationship between the radiant time series and transfer function methods for design cooling load calculations, HVAC&R Res **5**(2) 125-138 (Api 1999), 10A1372
Thermal integration of heat pumping systems in distillation columns, Appl Thermal Eng **19**(8) 819-829 (Aug 1999), 10A1373
Advanced GAX cycle for waste heat recovery: WGAX cycle, Appl Thermal Eng **19**(9) 933-947 (Sep 1999), 11A1440
Air heating system: Influence of a humidifier on thermal comfort, Appl Thermal Eng **19**(10) 1107-1127 (Oct 1999), 11A1441
Use of deterministic and intelligent techniques to predict the air velocity distribution on external openings in single-sided natural ventilation configurations, Solar Energy **66**(3) 223-243 (Jun 1999), 12A1076
Turbulent heat transfer in a horizontal helically coiled tube, Heat Transfer Asian Res **28**(5) 395-403 (1999), 12A1298
Air-conditioning load calculation with variable time steps (Chinese), J Shanghai Jiaotong Univ **33**(3) 251-254 (Mar 1999), 12A1405
Domestic electrical space heating with heat storage, Proc Inst Mech Eng A **213**(A2) 83-92 (1999), 12A1406
Dynamic process of indirect-cool refrigerator system (Chinese), J Shanghai Jiaotong Univ **33**(3) 247-250 (Mar 1999), 12A1407
Dynamic simulation of a split unit residential air conditioner (Chinese), J Shanghai Jiaotong Univ **33**(3) 262-264 (Mar 1999), 12A1408
Modeling and simulation of a refrigeration system for control purpose (Chinese), J Shanghai Jiaotong Univ **33**(3) 255-258 (Mar 1999), 12A1409
Neural network method for predicting refrigeration compressor performance (Chinese), J Shanghai Jiaotong Univ **33**(3) 265-267 (Mar 1999), 12A1410
New transfer function coefficients to calculate building load, Appl Thermal Eng **19**(11) 1207-1221 (Nov 1999), 12A1411
Use of hydrocarbon mixtures as refrigerants in domestic refrigerators, Appl Thermal Eng **19**(11) 1181-1189 (Nov 1999), 12A1412

410J. Cooling towers

Modeling the dynamic thermal behavior of cooling towers containing packing materials, Heat Transfer Eng **20**(1) 91-96 (Jan-Mar 1999), 8A1378
Cooling tower: An energy conservation resource, Appl Thermal Eng **19**(11) 1223-1235 (Nov 1999), 12A1413

410K. Boilers

Application of the first and second laws to fuel minimization in a batch furnace, J Energy Resources Tech **120**(3) 219-225 (Sep 1998), 1A1355
Use of an expert system to study the effect of steam parameters on the size and configuration of circulating fluidized bed boilers, J Eng Gas Turbines Power **120**(4) 861-866 (Oct 1998), 2A1312
Determination of mass-flow rate of a simple circuit in natural circulation hot-water boiler (Chinese), J Shanghai Jiaotong Univ **32**(7) 86-89 (Jul 1998), 4A1399
Flow characteristics of single phase fluid in type-Z header connecting systems (Chinese), J Shanghai Jiaotong Univ **32**(7) 81-85 (Jul 1998), 4A1400
Numerical method of real gas radiative heat transfer in boiler (Chinese), J Huazhong Univ Sci Tech **26**(10) 82-85 (Oct 1998), 6A1391
Temperature deviation of superheaters in power boilers caused by approval-oppose burner and secondary air (Chinese), J Huazhong Univ Sci Tech **26**(9) 49-51 (Sep 1998), 6A1392
Fatigue life estimate of boiler drum based on actual boundary condition stress solution (Chinese), J Xi'an Jiaotong Univ **33**(1) 73-76 (1999), 7A700
Experimental and theoretical study of an open multicompartment absorption heat transformer for different steam temperatures - Part II: Process modeling and simulation, Appl Thermal Eng **19**(4) 409-430 (Apr 1999), 7A1397
Experimental and theoretical study of an open multicompartment absorption heat transformer for different steam temperatures - Part III: Application to process industry, Appl Thermal Eng **19**(4) 431-448 (Apr 1999), 7A1398
Experimental and theoretical study of an open multicompartment absorption heat transformer for different steam temperatures - Part I: Hydrodynamic and heat transfer characteristics, Appl Thermal Eng **19**(3) 279-298 (Mar 1999), 7A1399
Steam Power Engineering: Thermal and Hydraulic Design Principles (Cambridge UP, UK, 1999) 8N32
Combustion characteristics and pollution minimum technology for vacuum residue fired boiler, JSME Int J Ser B **41**(4) 1055-1060 (Nov 1998), 8T1563
Performance enhancement in coal fired thermal power plants - Part 1: Boilers, Int J Energy Res **23**(6) 465-487 (May 1999), 10A1374
Management system of boiler drum's fatigue life (Chinese), J Xi'an Jiaotong Univ **33**(5) 62-65 (1999), 11A749

410L. Thermal energy storage systems

Development of a combustion system for a 110 MW CAES plant, J Eng Gas Turbines Power **120**(4) 875-883 (Oct 1998), 2A1313
Heat energy consumption in heating and hot tap water systems in apartment buildings, Proc Estonian Acad Sci Eng **4**(3) 225-232 (Sep 1998), 3A1332
Convection-based model for a PCM vertical storage unit, Int J Energy Res **22**(14) 1249-1265 (Nov 1998), 5A1319
Thermal performance of a latent heat energy storage ventilated panel for electric load management, Int J Heat Mass Transfer **42**(2) 275-286 (Jan 1999), 5A1320
Countermeasures for some problems related to storage of heated water in opening excavated in mountain (Japanese), Proc JSCE **610**(III45) 57-67 (Dec 1998), 7A1400
Heat recovery from moving cooling beds: Transient modeling by dynamic simulation, Appl Thermal Eng **19**(1) 21-35 (Jan 1999), 7A1401
Parametric studies on thermally stratified chilled water storage systems, Appl Thermal Eng **19**(1) 89-115 (Jan 1999), 7A1402
Thermo-dynamical approach to compressed air energy storage system (Japanese), Proc JSCE **610**(III45) 31-42 (Dec 1998), 7A1403
Experimental investigation and modeling of a new kind of latent heat storage system: Indirect-contact galisol system, Heat Transfer Asian Res **28**(2) 115-128 (1999), 8A1379
Fundamental study on latent cold heat energy storage by means of oil droplets at low freezing point: Cold heat energy release characteristics of direct-contact heat exchange between solidified oil droplets and hot air, JSME Int J Ser B **40**(4) 607-616 (Nov 1997), 8T1380
Experimental results of a sensible heat storage system for residential and light commercial application, Int J Energy Res **23**(4) 319-325 (Mar 1999), 9A1409
Heat transfer in vertically aligned phase change energy storage systems, J Solar Energy Eng **121**(2) 98-109 (May 1999), 9A1410
Study on phase change temperature distributions of composite PCMs in thermal energy storage systems, Int J Energy Res **23**(4) 277-285 (Mar 1999), 9A1411
Theoretical study on a novel phase change process, Int J Energy Res **23**(4) 287-294 (Mar 1999), 9A1412
Parametric study on possible fixed bed models for pcm and sensible heat storage, Appl Thermal Eng **19**(7) 757-788 (Jul 1999), 10A1375
Thermodynamic Properties of Fluids and Fluid Mixtures (Begell House, New York, 1999) 12N35
Approximate analytical solutions for stratified thermal storage under variable inlet temperature, Solar Energy **66**(1) 47-56 (May 1999), 12A1414

410N. Electronic equipment

Forced convective liquid cooling of arrays of protruding heated elements mounted in a rectangular duct, J Electron Packaging **120**(3) 243-252 (Sep 1998), 1A1291
Optimization of finned heat sinks for impingement cooling of electronic packages, J Electron Packaging **120**(3) 259-266 (Sep 1998), 1A1351
Avionics passive cooling with microencapsulated phase change materials, J Electron Packaging **120**(3) 238-242 (Sep 1998), 1A1353
Effects of material properties on heat dissipation in high power electronics, J Electron Packaging **120**(3) 280-289 (Sep 1998), 1A1356
Thermal enhancement coatings for microelectronic systems, J Electron Packaging **120**(3) 229-237 (Sep 1998), 1A1357
Review of recent developments in some practical aspects of air-cooled electronic packages, J Heat Transfer **120**(4) 830-839 (Nov 1998), 4A1401
Experimental study on the immersion cooling of an upward-facing multichip module with an opposing condensing surface, Heat Transfer Japan Res **27**(7) 497-508 (1998), 5A1321
Effects of the outlet area and the location of the main power supply unit on the cooling capability through naturally air-cooled electronic equipment casings, Proc Inst Mech Eng A **212**(A5) 381-383 (1998), 6A1393
Experimental and numerical investigation of forced convective characteristics of arrays of channel mounted obstacles, J Heat Transfer **121**(1) 34-42 (Feb 1999), 7A1216
Heat transfer and pressure loss characterization in a channel with discrete flush-mounted and protruding heat sources, Exp Heat Transfer **12**(1) 1-16 (Jan-Mar 1999), 7A1220
Transient response of protruding electronic modules exposed to horizontal cross flow, Int J Heat Fluid Flow **20**(1) 48-59 (Feb 1999), 7A1252
Heat transfer in a conjugate heat exchanger with a wavy fin surface, Int J Heat Mass Transfer **42**(10) 1735-1745 (May 1999), 7A1281
Comparative analysis of jet impingement and microchannel cooling for high heat flux applications, Int J Heat Mass Transfer **42**(9) 1555-1568 (May 1999), 7A1404
Heat transfer from a horizontal wafer-based disk of multi-chip modules, Int J Heat Mass Transfer **42**(6) 1007-1022 (Mar 1999), 7A1405
Overheating and frequent thermal cycling of outdoor electronic cabinets in cold climates, J Electron Packaging **121**(1) 50-54 (Mar 1999), 7A1406
Developing convective heat transfer in deep rectangular microchannels, Int J Heat Fluid Flow **20**(2) 149-157 (Apr 1999), 8A1295
Optimization of heat sink geometries for impingement air-cooling of LSI packages, Heat Transfer Asian Res **28**(2) 138-151 (1999), 8A1368
Analysis of two-layered micro-channel heat sink concept in electronic cooling, Int J Heat Mass Transfer **42**(12) 2287-2292 (Jun 1999), 8A1381
Experimental study on forced convection heat transfer from flush-mounted discrete heat sources, J Heat Transfer **121**(2) 326-332 (May 1999), 9A1321
Optimal insulation of conductors, J Optim Theory Appl **100**(2) 253-263 (Feb 1999), 9A1367
Damage mechanics of surface mount technology solder joints under concurrent thermal and dynamic loading, J Electron Packaging **121**(2) 61-68 (Jun 1999), 9A1413
Integrated thermal analysis of natural convection air cooled electronic enclosure, J Electron Packaging **121**(2) 108-115 (Jun 1999), 9A1414
Liquid Cooling of Electronic Devices by Single-Phase Convection (Wiley, New York, 1999) 10R29
Conjugate heat transfer analysis for the passive enhancement of electronic cooling through geometric modification in a mixed convection domain, Numer Heat Transfer A **35**(5) 519-535 (Apr 1999), 10A1312
Aircraft skin-cooling airflow distribution, J Thermophys Heat Transfer **13**(2) 250-255 (Apr-Jun 1999), 10A1376
Device temperature and heat generation in power metal-oxide semiconductor field effect transistors, J Thermophys Heat Transfer **13**(2) 185-194 (Apr-Jun 1999), 10A1377
Performance prediction and control-system design of an aircraft skin-cooling technique, J Thermophys Heat Transfer **13**(2) 243-249 (Apr-Jun 1999), 10A1378
Thermal wakes measurement in electronic modules in the presence of heat transfer enhancement devices, Appl Thermal Eng **19**(10) 1081-1096 (Oct 1999), 11A1348
Enhanced heat transfer in tight space: A frontier for thermal management of microelectronic equipment, J Enhanced Heat Transfer **6**(2-4) 121-133 (1999), 11A1442
Forced convection in microstructures for electronic equipment cooling, J Heat Transfer **121**(3) 639-645 (Aug 1999), 12A1415

412. THERMOMECHANICS OF SOLIDS

412A. General theory

Symmetric forms of the equations of heat transport in a rigid conductor of heat with internal state variables - I: Analysis of the model and thermodynamic restrictions via the "main dependency relation", Arch Mech **50**(2) 143-173 (1998), 1A1358
Symmetric forms of the equations of heat transport in a rigid conductor of heat with internal state variables - II: Alternative symmetric systems, Arch Mech **50**(2) 175-205 (1998), 1A1359
Thermoelastic Deformations (488, 1996) 2R32
Behavior of cutting heat in high speed cutting, J Japan Soc Precision Eng **64**(7) 1067-1071 (Jul 1998), 2A782
Nonlinear heat equations, Reports Math Phys **40**(3) 557-564 (Dec 1997), 2A1314
Cosserat spectrum theory in thermoelasticity and application to the problem of heat flow past a rigid spherical inclusion, J Appl Mech **65**(3) 614-618 (Sep 1998), 2A1315
Mechanics and Thermodynamics of Continuous Media (Springer-Verlag, New York, 1997) 3R27
Thermoelastic interactions without energy dissipation due to a point heat source, J Elast **50**(2) 97-108 (1998), 3A1333
Energetical approach of running discontinuities in dynamics, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **322**(7) 525-532 (Apr 1996), 3A1340
Transient elastic and viscoelastic thermal stresses during laser drilling of ceramics, J Heat Transfer **120**(4) 892-898 (Nov 1998), 4A1402
Global equivalence for deformable thermoelastic bodies, Arch Rational Mech Anal **143**(4) 375-400 (1998), 5A1322
Hyperbolic thermoelasticity: A review of recent literature, Appl Mech Rev **51**(12) 705-729 (Dec 1998), 5A1323
Incremental problem in thermoelasticity of nonsimple materials, Z Angew Math Mech **78**(10) 703-710 (1998), 5A1324
Electrothermodynamic analysis of an interface, Smart Mat Struct **7**(6) 809-821 (Dec 1998), 6A1394
Endochronic model for temperature sensitive materials, Int J Plasticity **14**(10-11) 997-1012 (1998), 6A1395
Thermomechanical model for the analysis of light alloy solidification in a composite mold, Int J Solids Struct **36**(16) 2341-2378 (Jun 1999), 7A430
Dynamic theory of mixtures of thermoelastic solids, J Thermal Stresses **22**(1) 23-34 (Jan-Feb 1999), 7A1407
Effective thermoelectroelastic properties of microinhomogeneous materials, Int J Solids Struct **36**(18) 2683-2705 (Jun 1999), 8A11
Thermomechanics of Continua (Springer-Verlag, Berlin, 1998) 9R1
Damage mechanics of surface mount technology solder joints under concurrent thermal and dynamic loading, J Electron Packaging **121**(2) 61-68 (Jun 1999), 9A1413
Cosserat Spectrum theory for 2D thermoelastic problems, J Thermal Stresses **22**(2) 225-239 (Mar 1999), 9A1415
Deformation behavior of two lead-free solders: Indalloy 227 and Castin alloy, J Electron Packaging **121**(2) 99-107 (Jun 1999), 9A1416
Formulation of coupled thermoplastic problems with phase-change, Int J Plasticity **15**(1) 1-34 (1999), 9A1417
Homogenized thermoelastic model for a beam of a periodic structure, Int J Eng Sci **37**(5) 631-642 (Apr 1999), 9A1418
Spatial behavior in thermoelasticity without energy dissipation, J Thermal Stresses **22**(2) 213-224 (Mar 1999), 9A1419
Thermomechanical behavior of shape memory alloy under complex loading conditions, Int J Plasticity **15**(2) 223-239 (1999), 9A1420
Thermodynamic theory of generalized thermotheologically simple viscoelastic ferromagnetic materials with the damping memory (Russian), Prikl Mekh (Appl Mech) **35**(1) 45-49 (1999), 10T539
Hyperbolic framework for thermoelastic materials, Arch Mech **50**(3) 423-450 (1998), 10A1379
Thermoelastodynamic disturbances in a half-space under the action of a buried thermal-mechanical line

source, Int J Solids Struct **36**(24) 3639-3660 (Aug 1999), 10A1380
Coupled thermostatic constitutive relations for solid-phase mixtures, Int J Eng Sci **37**(8) 1069-1087 (Jun 1999), 11A1443
Generalized thermoelasticity, J Thermal Stresses **22**(4-5) 451-476 (May-Jul 1999), 11A1444
Thermal stresses in heterogeneous elastic cylinders with microstructure, J Thermal Stresses **22**(4-5) 371-385 (May-Jul 1999), 11A1445
Materials with internal variables and relaxation to conservation laws, Arch Rational Mech Anal **146**(2) 129-155 (1999), 12A1416

412B. Thermoelasticity (steady and quasi-steady)

Shape design optimization of thermoelastic structures for durability, J Mech Des **120**(3) 491-500 (Sep 1998), 1A964
Parametric equations for maximum stresses in cylindrical vessels subjected to thermal expansion loading, Int J Pressure Vessels Piping **75**(3) 255-262 (Mar 1998), 1A1019
Numerical prediction of the flow-induced thermal loading of a 250 MW steam turbine HP casing (French), Rev Francaise Mec **0**(2) 89-98 (Jun 1998), 1A1251
Multidimensional contact problems in thermoelasticity, SIAM J Appl Math **58**(4) 1307-1337 (Aug 1998), 1A1360
Quantitative analysis of local contraction of ship plate bending by line heating (Chinese), J Dalian Univ Tech **38**(4) 405-409 (Jul 1998), 1A1361
Thermoelectroelastic Green's function and its application for bimaterial of piezoelectric materials, Arch Appl Mech **68**(6) 433-444 (Jul 1998), 1A1362
Thermal stress development during vacuum arc remelting and permanent mold casting of ingots, J Manuf Sci Eng **120**(4) 755-763 (Nov 1998), 2A804
Cosserat spectrum theory in thermoelasticity and application to the problem of heat flow past a rigid spherical inclusion, J Appl Mech **65**(3) 614-618 (Sep 1998), 2A1315
Development and applications of thermoelastic stress analysis, J Strain Anal Eng Des **33**(2) 93-104 (Mar 1998), 2A1316
Moments due to thermal stratification for a uniform beam with spring end conditions, J Pressure Vessel Tech **120**(4) 462-464 (Nov 1998), 2A1317
Thermostressed state of the transversally isotropic medium (Russian), Prikl Mekh (Appl Mech) **33**(5) 3-12 (1998), 2T1318
Coupled thermoporoelastic model with thermo-osmosis and thermal-filtration, Int J Solids Struct **35**(34-35) 4659-4683 (Dec 1998), 3A9
Thermodynamically consistent formulation of magnetoporoelasticity, Int J Solids Struct **35**(34-35) 4637-4657 (Dec 1998), 3A13
Thermal stresses from large volumetric expansion during freezing of biomaterials, J Biomech Eng **120**(6) 720-726 (Dec 1998), 3A1334
Thermodynamic structure and constitutive equations for fluid-saturated compressible and incompressible elastic porous solids, Int J Solids Struct **35**(34-35) 4557-4573 (Dec 1998), 3A1430
Micromechanical models for graded composite materials - Part II: Thermomechanical loading, J Mech Phys Solids **46**(9) 1655-1673 (Sep 1998), 4A588
One representation of results of solutions for the equations of thermoelastic physically orthotropic shells (Russian), Prikl Mekh (Appl Mech) **34**(6) 64-67 (1998), 4A650
Dissipative heating of a solid circular viscoelastic cylinder under steady motion of the normal load on its surface (Russian), Prikl Mekh (Appl Mech) **34**(6) 39-44 (1998), 4A1403
Effects of strain state on the kinetics of strain-induced martensite in steels, J Mech Phys Solids **46**(9) 1613-1635 (Sep 1998), 4A1404
Exact thermoelastic solution for an axisymmetric problem of thick closed laminated shells, J Thermal Stresses **21**(7) 751-761 (Oct 1998), 4A1405
Influence of temperature depolarization on thermoelectromechanical behavior of the ring plate from viscoelastic material under harmonic loading (Russian), Prikl Mekh (Appl Mech) **34**(6) 85-91 (1998), 4A1406
Temperature stresses in thick circular cylindrical shells used in nuclear reactors with and without uniform internal heat generation within the shell wall thickness, Proc Inst Mech Eng C **212**(C7) 547-554 (1998), 5A554
Temperature stresses in thick wall circular cylindrical shells used in nuclear reactors with exponential heat generation within the shell wall thickness, Proc Inst Mech Eng C **212**(C7) 555-565 (1998), 5A555
Temperature distribution during multipass welding of plates, Int J Pressure Vessels Piping **75**(12) 891-905 (Oct 1998), 5A879
Adiabatic shear bands in a Ti-6Al-4V titanium alloy, J Mech Phys Solids **46**(11) 2201-2231 (Nov 1998), 5A1325
Linear hardening solid disk with rigid casing subjected to a uniform heat source, Mech Res Commun **25**(6) 679-684 (Nov-Dec 1998), 5T1326
Thermal-elastic analysis on laser-induced reverse bulging and plugging in circular brass foil, Int J Solids Struct **36**(3) 363-389 (Jan 1999), 6A700
Thermomechanical postbuckling of composite laminated cylindrical shells with local geometric imperfections, Int J Solids Struct **36**(4) 597-617 (Feb 1999), 6A701
Problems in plane thermopiezoelectric materials with holes, Int J Solids Struct **36**(3) 427-439 (Jan 1999), 6A720
Cyclic torsion of a polymeric tube: Self-heating and thermal failure, J Thermal Stresses **21**(9) 851-879 (Dec 1998), 6A1396
Incremental problem in thermoelasticity with microstructure, Meccanica **33**(6) 601-604 (Dec 1998), 6T1397
Quasi-static thermoelastic state of two-layered orthotropic circular cylinder under the friction heating (Russian), Prikl Mekh (Appl Mech) **34**(9) 46-54 (1998), 6A1398
Quasistationary thermal-stressed state of a plane-parallel layer under mixed heating conditions (Russian), Prikl Mekh (Appl Mech) **34**(9) 76-82 (1998), 6A1399
Restraint of the temperature rise in thermal stress cleaving of a thin strip using Nd: YAG laser, J Japan Soc Precision Eng **64**(11) 1638-1642 (Nov 1998), 6A1400
Thermoelastic contact with thermal resistance of anisotropic subspaces (Russian), Prikl Mekh (Appl Mech) **34**(7) 27-33 (1998), 6A1401
Thermomechanical behavior of orthotropic round plate of variable thickness (Russian), Prikl Mekh (Appl Mech) **34**(7) 78-83 (1998), 6A1402
Displacement-based reference frame formulation for steady-state thermo-elasto-plastic material processes, Int J Solids Struct **36**(16) 2397-2416 (Jun 1999), 7A510
Thermal stress analysis of a solid rocket motor nozzle throat insert using FEM, Indian J Eng Mat Sci **5**(5) 271-277 (Oct 1998), 7A1408
Thermoelastic properties of plain weave composites for multilayer circuit board applications, J Electron Packaging **121**(1) 37-43 (Mar 1999), 7A1409
Thermoelastic stresses in a cylinder or disk with cubic anisotropy, Int J Solids Struct **36**(14) 2109-2125 (May 1999), 7A1410
Two-dimensional thermoelasticity problem for a half space subjected to heat sources, Int J Solids Struct **36**(9) 1369-1382 (Mar 1999), 7A1411
Three dimensional axisymmetric piezothermoelastic solution of clamped circular elastic plate bonded to piezoceramic plate, Z Angew Math Mech **79**(2) 117-129 (1999), 8A677
Generalized thermoelastic interaction in an unbounded body due to a line heat source, Appl Math Comput **100**(2-3) 285-295 (May 1999), 8A1382
Green's function for a heat source in an infinite region with an arbitrary shaped hole, J Appl Mech **66**(1) 204-210 (Mar 1999), 8A1383
Plane contact problem for a layer involving frictional heating, Int J Heat Mass Transfer **42**(14) 2583-2589 (Jul 1999), 8A1384
Thermal error analysis for a CNC lathe feed drive system, Int J Machine Tools Manuf **39**(7) 1087-1101 (Jul 1999), 9A559
Thermoelastic interaction between a hole and an elastic circular inclusion, AIAA J **37**(4) 475-481 (Apr 1999), 9A576
Simultaneous solution of the governing equations of the thermo-elastohydrodynamic line contact problem (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 461-480 (1998), 9A582
McNu '97, the joint American Society for Mechanical Engineers, American Society of Civil Engineers, and Society of Engineering Sciences summer meeting, July 29 - Jul 2, 1997, J Intelligent Mat Syst Struct **9**(5) 324-400 (May 1998), 9A976
Coupled thermoelasticity of shells of revolution: Effect of normal stress and coupling, AIAA J **37**(4) 496-504 (Apr 1999), 9A1421
Variational approach in heterogeneous linear thermoelasticity (French), Comptes Rendus L'Acad Sci Serie II **327**(2-3) 185-192 (Feb-Mar 1999), 9A1422
Constitutive equations for polycrystalline thermoelastic shape memory alloys - Part I: Intragranular interactions and behavior of the grain, Int J Solids Struct **36**(28) 4289-4315 (Oct 1999), 10A9
Effect of heat resistance on the contact interaction of anisotropic half-planes (Russian), Prikl Mekh (Appl Mech) **35**(2) 54-59 (1999), 10A532
Cometary splitting due to thermal stresses, Planet Space Sci **47**(3-4) 319-326 (Mar-Apr 1999), 10A1381
Convection effects for rapidly moving mechanical sources on a half-space governed by fully coupled thermoelasticity, J Appl Mech **66**(2) 347-351 (Jun 1999), 10A1382
Multipurpose optimization problem of material composition for thermal stress relaxation type of a functionally graded circular plate, JSME Int J Ser A **41**(3) 318-325 (Jul 1998), 10A1383
Steady-state thermomechanical solution of continuously quenched axisymmetric bodies, J Appl Mech **66**(2) 334-339 (Jun 1999), 10A1384
Thermoelastic contact between a flat punch and an anisotropic half-space, J Appl Mech **66**(2) 548-552 (Jun 1999), 10A1385
Thermoelasticity analysis of periodic thin lines deposited on a substrate, J Mech Phys Solids **47**(5) 1113-1130 (May 1999), 10A1386
Thermoelastic bending of orthotropic plates, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 135-145 (1999), 11A575
Application of the potential function method in piezothermoelasticity: Solutions for composite circular plates, J Thermal Stresses **22**(4-5) 387-420 (May-Jul 1999), 11A608
Material formulation of finite-strain thermoelasticity and applications, J Thermal Stresses **22**(4-5) 421-449 (May-Jul 1999), 11A1446
Thermal stress analysis and homogenization for catalytic combustor monoliths, European J Appl Math **10**(2) 185-220 (Apr 1999), 11A1447
Thermoelasticity and contact, J Thermal Stresses **22**(4-5) 513-525 (May-Jul 1999), 11A1448
Thermoelastic-plastic analysis of solids at finite deformations, Proc Estonian Acad Sci Eng **5**(2) 122-130 (Jun 1999), 12A601
Simultaneous determination of temperatures, heat fluxes, deformations, and tractions on inaccessible boundaries, J Heat Transfer **121**(3) 537-545 (Aug 1999), 12A1362
Green's function of the displacement boundary value problem for a heat source in an infinite plane with an arbitrary shaped rigid inclusion, Arch Appl Mech **69**(4) 227-239 (May 1999), 12A1417

412C. Thermoelasticity (transient)

Investigation of the transient thermal deflection and stresses of the workpiece in surface grinding with the application of a cryogenic magnetic chuck, J Mat Processing Tech **79**(1-3) 177-184 (Jul 1998), 1A1363
Nonlinear transient thermoelastic analysis of functionally graded ceramic-metal plates, Int J Solids Struct **35**(33) 4457-4476 (Nov 1998), 1A1364
Solution of plane bound dynamic problems of nonstationary theory of thermoelasticity, Prikl Mekh (Appl Mech) **34**(2) 67-73 (1998), 1A1365
Dynamic stress of a liquid metal target container under pulsed heating, J Pressure Vessel Tech **120**(4) 359-364 (Nov 1998), 2A1319
Effects of thermomechanical coupling and relaxation times on wave spectrum in dynamic theory of generalized thermoelasticity, J Appl Mech **65**(3) 605-613 (Sep 1998), 2A1320
Laser-induced thermal stresses on steel surface, Opt Lasers Eng **30**(1) 25-37 (Jul 1998), 2A1321
Linear thermoviscoelasticity - Part I: A functional model, Acta Mech **130**(3-4) 175-183 (1998), 3A1335
Linear thermoviscoelasticity - Part II: Energy balances, Acta Mech **130**(3-4) 185-197 (1998), 3A1336
Decay rates of solutions to thermoviscoelastic plates with memory, IMA J Appl Math **60**(3) 263-283 (Jun 1998), 4A1407
Inverse problems for identification of memory kernels in thermo- and poro-viscoelasticity, Math Methods Appl Sci **21**(16) 1495-1517 (Nov 1998), 4A1408
Behavior of metal matrix composites subjected to cyclic thermal loading, J Mech Phys Solids **46**(11) 2183-2199 (Nov 1998), 5A500
Analysis of thermal stresses in a boiler drum during start-up, J Pressure Vessel Tech **121**(1) 84-93 (Feb 1999), 5A1327
Coated thermoelastic body within a low-frequency elastodynamic field, Int J Eng Sci **36**(15) 1815-1838 (Dec 1998), 5A1328
Effect of cyclic loading on material temperature, Mech Res Commun **25**(6) 653-660 (Nov-Dec 1998), 5T1329
Short time solution for a problem in thermoelasticity of an infinite medium with a spherical cavity, J Thermal Stresses **21**(8) 811-828 (Nov 1998), 5A1330
Thermoelastic modeling of laser-induced stress waves in plates, J Thermal Stresses **21**(8) 829-847 (Nov 1998), 5A1331
Effect of thermal depolarization and thermomechanical dependence on harmonious oscillations and dissipative hearing of conic piezoceramic shells (Russian), Prikl Mekh (Appl Mech) **34**(8) 62-67 (1998), 6A165
Inverse estimation of transient temperature distribution in the end quenching test, J Mat Processing Tech **86**(1-3) 257-263 (Feb 1999), 6A1373
Problem in generalized magneto-thermoelasticity for an infinitely long annular cylinder, J Eng Math **34**(4) 387-402 (Nov 1998), 6A1403
Response of welded thermoelastic solids to the rapid motion of thermomechanical sources parallel to the interface, Int J Solids Struct **36**(10) 1503-1521 (Apr 1999), 7A1412
Thermoelasticity of multilayered cylinders, J Thermal Stresses **22**(1) 57-74 (Jan-Feb 1999), 7A1413
Three-dimensional transient thermal stresses of functionally graded rectangular plate due to partial heating, J Thermal Stresses **22**(1) 35-55 (Jan-Feb 1999), 7A1414
Characterization of fatigue mechanisms of thermal barrier coatings by a novel laser-based test, J Eng Gas Turbines Power **121**(2) 259-264 (Apr 1999), 8A738
Testing of a low cooled ceramic nozzle vane under transient conditions, J Eng Gas Turbines Power **121**(2) 254-258 (Apr 1999), 8A857
Thermoelastodynamic disturbances in a half-space under the action of a buried thermal-mechanical line source, Int J Solids Struct **36**(24) 3639-3660 (Aug 1999), 10A1380
Application of the hybrid method to the transient thermal stresses response in isotropic annular fins, J Appl Mech **66**(2) 340-346 (Jun 1999), 10A1387
Model of thermomechanical process during welding of unbent plates with account for their relative displacements (Russian), Prikl Mekh (Appl Mech) **34**(12) 70-76 (1998), 10A1388
Fundamental matrix of the generalized thermoelastic system, J Theor Appl Mech **36**(4) 919-936 (1998), 11A1449
Thermal stresses in functionally graded materials, J Thermal Stresses **22**(4-5) 477-512 (May-Jul 1999), 11A1450
Coupled problem of thermoelastic vibrations of a circular plate with exact boundary conditions, Mech Res Commun **26**(2) 217-224 (Mar-Apr 1999), 11A1453
Dilatational and shear waves without energy dissipation in a rotating medium, Mech Res Commun **26**(2) 225-227 (Mar-Apr 1999), 11T1454
Two-dimensional transient thermal stress analysis of adhesive butt joints, J Adhesion **70**(1-2) 75-93 (May 1999), 12A1418

412D. Thermoelasticity (nonlinear)

Multidimensional contact problems in thermoelasticity, SIAM J Appl Math **58**(4) 1307-1337 (Aug 1998), 1A1360
Thermoelastic Deformations (488, 1996) 2R32
Simple approach to investigate vibratory behavior of thermally stressed laminated structures, J Sound Vib **219**(4) 603-618 (Jan 1999), 7A154
Global existence and asymptotic behavior of weak solutions to nonlinear thermoviscoelastic systems with clamped boundary conditions, Quart Appl Math **57**(1) 93-116 (Mar 1999), 7A1415
Nonlinear stability considerations in thermoelastic contact, J Appl Mech **66**(1) 109-116 (Mar 1999), 8A1385
Stability analysis of thermo-visco-plastic materials undergoing high-rate shear deformations, Quart Appl Math **57**(2) 213-227 (Jun 1999), 10A1390

412E. Inelastic thermomechanics

One method for realization of successive approximations for the boundary-value thermoplasticity problems, Prikl Mekh (Appl Mech) **34**(3) 37-44 (1998), 1A1366
Theoretical and numerical aspects in the thermoviscoelastic material behavior of rubber-like polymers, Mech Time-Dependent Mat **1**(4) 357-396 (1997), 1A1367
Thermodynamic formulation of finite-deformation elastoplasticity with hardening based on the concept of material isomorphism, Int J Plasticity **14**(6) 473-488 (1998), 1A1368
Study on the thermo-elastic-plastic cutting model for 3D tool with chip breaker, J Eng Mat Tech **120**(4) 265-274 (Oct 1998), 2A770
Fatigue behavior of 28CrMoV5-08 steel under thermomechanical loading, Int J Fatigue **20**(8) 555-563 (Sep 1998), 2A832
Temperature rise in wire-drawing, J Mat Processing Tech **83**(1-3) 72-83 (Nov 1998), 3A687
Shear band formation in thermoviscoplastic solids under plane strain compression, Acta Mech Solida Sinica **11**(3) 216-228 (1998), 3A1337
In-situ investigations of the martensitic transformation in TiNi by synchrotron radiation, J Eng Mat Tech **121**(1) 56-60 (Jan 1999), 4A556
Influence of aging on critical transformation stress levels and martensite start temperatures in NiTi - Part II: Discussion of experimental results, J Eng Mat Tech **121**(1) 28-37 (Jan 1999), 4A558
Material characterization of SMA actuators under nonproportional thermomechanical loading, J Eng Mat Tech **121**(1) 75-85 (Jan 1999), 4A559
Microstructure and mechanical properties of sputter-deposited Ti-Ni alloy thin films, J Eng Mat Tech **121**(1) 2-8 (Jan 1999), 4A561
Modeling of martensite accommodation effect on mechanical behavior of shape memory alloys, J Eng Mat Tech **121**(1) 102-104 (Jan 1999), 4A563

Role of microstructure in the thermomechanical behavior of SMA composites, J Eng Mat Tech **121**(1) 86-92 (Jan 1999), 4A565
Simulation of cyclic displacement by counterpoised shape memory elements, J Eng Mat Tech **121**(1) 67-74 (Jan 1999), 4A569
Anisotropy of Cu-based shape memory alloys in tension-compression thermomechanical loads, J Eng Mat Tech **121**(1) 48-55 (Jan 1999), 4A576
High temperature shape memory alloys, J Eng Mat Tech **121**(1) 98-101 (Jan 1999), 4A1409
Computer simulation of residual stresses-distortion and structural change in the course of scanning induction hardening (Japanese), J Soc Mat Sci Japan **47**(9) 892-898 (Sep 1998), 5A475
Hybrid method for determining the fraction of plastic work converted to heat, Exp Mech **38**(4) 295-302 (Dec 1998), 5A492
Compressive thermal yielding leading to hydrogen cracking in a fired cannon, J Pressure Vessel Tech **121**(1) 116-120 (Feb 1999), 5A669
Structure of adiabatic shear bands in thermo-viscoplastic materials, Eur J Mech A **17**(6) 923-938 (Nov-Dec 1998), 5A1332
Micromechanical modeling of the hysteretic behavior in thermally induced martensitic phase transitions: Applicable to Cu-Zn-Al shape memory alloys, Acta Mat **47**(1) 13-21 (Dec 1998), 6A566
Integrated micro-macro thermo-elastic-viscoplastic analysis of laminate metal matrix composites, J Thermal Stresses **21**(9) 897-917 (Dec 1998), 6A1404
Upsetting of a cylindrical specimen between elastic tools, J Mat Processing Tech **86**(1-3) 73-80 (Feb 1999), 6A1405
Improvement of the convergence of method of supplementary deformations in boundary value thermoplasticity problems in deformation processes along the small curvature trajectories (Russian), Prikl Mekh (Appl Mech) **34**(8) 75-81 (1998), 6A1410
Combined FE-BE thermo-mechanical analysis of metal forming processes, J Mat Processing Tech **87**(1-3) 247-257 (Mar 1999), 7A20
Fundamental modeling for oblique cutting by thermo-elastic-plastic FEM, Int J Mech Sci **41**(8) 941-965 (Aug 1999), 7A659
Fuzzy-set analysis for a dynamic thermo-elasto-viscoplastic damage response, Comput Struct **70**(1) 91-107 (Jan 1999), 7A1416
Thermal cycling of temperature and strain rate dependent solder joints, Mech Time-Dependent Mat **2**(1) 59-83 (1998), 7A1417
Numerical study of the critical impact velocity in shear, Eur J Mech A **18**(1) 93-113 (Jan-Feb 1999), 8A211
Simulated annealing algorithm applied to optimize design of turbine cascades (Chinese), J Xi'an Jiaotong Univ **33**(3) 64-67 (1999), 8A947
Primary creep of a near γ-TiAl intermetallic, High Temp Mat Proc **18**(3) 173-184 (Feb 1999), 9A590
Asymptotic and computational analysis of large shear deformations of a thermoplastic material, SIAM J Appl Math **59**(2) 700-724 (Nov 1998), 9A1423
Influence of some parameters on the residual stresses from quenching, Model Simulation Mat Sci Eng **7**(1) 25-41 (Jan 1999), 9A1424
Shear band spacing in gradient-dependent thermoviscoplastic materials, Comput Mech **23**(1) 8-19 (Feb 1999), 9A1425
Effect of material parameters on shear band spacing in work-hardening gradient dependent thermoviscoplastic materials, Int J Plasticity **15**(5) 551-574 (1999), 10A577
Asymptotic structure of a shear band in mode-II deformations, Int J Eng Sci **37**(7) 895-919 (May 1999), 10A1389
Stability analysis of thermo-visco-plastic materials undergoing high-rate shear deformations, Quart Appl Math **57**(2) 213-227 (Jun 1999), 10A1390
IUTAM Symposium on Micro- and Macrostructural Aspects of Thermoplasticity (Kluwer, Netherlands, 1998) 11N31
Effects of temperature on mechanical properties of austenitic high nitrogen steels, Acta Polytech Scand Mech Eng **0**(136) 9-100 (1999), 12A1419
Elastic-plastic deformation of a centrally heated cylinder exhibiting linear hardening, Z Angew Math Mech **79**(7) 493-498 (1999), 12A1420

412F. Thermomagnetic and thermoelectric effects

Stresses distribution in a magneto-thermoelastic medium with cylindrical hole, Eng Trans **45**(3-4) 331-348 (1997), 1A1369
Coherent ferromagnetic precipitate and anomalies in the heat conduction and thermopower of $Mn_{1-x}Cr_xSb$ single crystals, Acta Phys Polonica A **93**(5-6) 745-762 (May-Jun 1998), 2T1322
Analysis and design of polysilicon thermal flexure actuator, J Micromech Microeng **9**(1) 64-70 (Mar 1999), 9T486
Coupled fields and variational description of microelasticity, J Tech Phys **39**(3-4) 511-522 (1998), 11A1451
Studies on the electro-thermal behavior of the metal-on-metal sliding contacts in railguns, J Tech Phys **39**(3-4) 385-395 (1998), 11T1452

412G. Thermal shock

Thermal shock resistance of solids, Acta Mat **46**(13) 4755-4768 (Aug 1998), 2A1323
Assessment of damage induced by thermal shock in SiC-fiber-reinforced borosilicate glass composites, Composites Sci Tech **59**(1) 105-112 (Jan 1999), 7A737
Response of welded thermoelastic solids to the rapid motion of thermomechanical sources parallel to the interface, Int J Solids Struct **36**(10) 1503-1521 (Apr 1999), 7A1412
Thermal shock testing for ceramics (Japanese), J Soc Mat Sci Japan **48**(1) 1-9 (Jan 1999), 8T1386
Thermal shock parameters of ceramics evaluated by infrared radiation heating, JSME Int J Ser A **40**(4) 414-422 (Oct 1997), 10A1391
Coupled problem of thermoelastic vibrations of a circular plate with exact boundary conditions, Mech Res Commun **26**(2) 217-224 (Mar-Apr 1999), 11A1453

412H. Thermal fatigue and stability

Buckling and postbuckling behavior of curved composite panels due to thermal and mechanical loading, J Reinforced Plastics Composites **17**(14) 1292-1306 (1998), 2A718
Development of thermal fatigue testing apparatus with BWR water environment and thermal fatigue strength of austenitic stainless steels, Nucl Eng Des **184**(1) 113-122 (Aug 1998), 3A775
Thermal fatigue behavior of thin-walled cylindrical carbon steel specimens in simulated BWR environment, Nucl Eng Des **184**(1) 123-133 (Aug 1998), 3A1338
Thermal fatigue strength of type 304 stainless steel in simulated BWR environment, Nucl Eng Des **184**(1) 135-144 (Aug 1998), 3A1339
Buckling analysis of a heated steel strip in a continuous annealing furnace, J Manuf Sci Eng **121**(1) 76-83 (Feb 1999), 6A1406
Investigation of PWB layout by genetic algorithms to maximize fatigue life, J Electron Packaging **121**(1) 31-36 (Mar 1999), 7A1426
Thermal fatigue of aluminium-based metal matrix composites studied by mechanical spectroscopy, Sci Eng Comp Mat **8**(1) 45-53 (1999), 9A814
Application of a displacement controlled weight function for a single edge cracked plate to thermal fatigue damage assessment, Eng Fracture Mech **62**(2-3) 249-266 (Jan-Feb 1999), 9A855
Optimal design of thick laminated composite plates for maximum thermal buckling load, J Thermal Stresses **22**(3) 259-273 (Apr 1999), 10A718
Simplified analysis of imperfect thermally buckled subsea pipelines, Int J Offshore Polar Eng **8**(4) 283-291 (Dec 1998), 10A740
Thermal fatigue life of solder bumps in BGA, JSME Int J Ser A **41**(2) 260-266 (Apr 1998), 10A1392
Application of a displacement controlled weight function for a single edge cracked plate to thermal fatigue damage assessment, Eng Fracture Mech **63**(3) 325-343 (Jun 1999), 11A781
Experimental study of large scale model composite materials under thermal fatigue, Composites Part A Appl Sci and Manuf **30A**(8) 1027-1034 (1999), 12A1421
Trial and error method of thermal buckling for complex structures (Chinese), J Dalian Univ Tech **39**(3) 358-362 (May 1999), 12A1422

412I. Thermal wave propagation

Near incompressibility at uniform temperature or entropy in isotropic thermoelasticity, Math Mech Solids **3**(3) 243-275 (Sep 1998), 2A276
Hyperbolic thermoelasticity: A review of recent literature, Appl Mech Rev **51**(12) 705-729 (Dec 1998), 5A1323
Coupling in thermo-mechanical wave propagation in NaF at low temperature, Arch Mech **50**(4) 703-713 (1998), 10A1393
Dilatational and shear waves without energy dissipation in a rotating medium, Mech Res Commun **26**(2) 225-227 (Mar-Apr 1999), 11T1454

412J. Thermofracture mechanics

Interface crack in bi-piezothermoelastic media and the interaction with a point heat source, Int J Solids Struct **35**(30) 3899-3915 (Oct 1998), 1A891
Thermomechanics and kinetics of generalized second-order phase transitions in inelastic materials: Application to ductile fracture, Mech Res Commun **25**(4) 427-436 (Jul-Aug 1998), 1T1370
Ceramic coating edge failure due to thermal expansion interference, J Eng Gas Turbines Power **120**(4) 820-824 (Oct 1998), 2A853
Growth of plastic zones due to heat loading near a closed interface crack, J Theor Appl Mech **36**(2) 249-261 (1998), 2A1324
Influence of intermediate loading rates and temperature on the fracture toughness of ordinary carbon-manganese structural steels, Fatigue Fracture Eng Mat Struct **21**(7) 805-817 (1998), 2A1325
Energetical approach of running discontinuities in dynamics, Comptes Rendus L'Acad Sci Serie II Mec Phys Chimie Astron **322**(7) 525-532 (Apr 1996), 3A1340
Thermal stress cleaving of a brittle thin strip using line heat source and the size effect (Japanese), J Soc Mat Sci Japan **47**(8) 813-818 (Aug 1998), 3A1341
Closed form stress intensity factor of an arbitrarily located inner-surface circumferential crack in an edge-restraint cylinder under linear radial temperature distribution, Eng Fracture Mech **60**(5-6) 519-527 (Jul 1998), 4A802
Effect of a graded interlayer on the stress intensity factor of cracks in a joint under thermal loading, Eng Fracture Mech **60**(5-6) 615-623 (Jul 1998), 4A803
Analysis of interfacial cracks in a TBC-superalloy system under thermal loading, Eng Fracture Mech **60**(5-6) 577-581 (Jul 1998), 4A1410
Multiple surface thermal fracture of graded ceramic coatings, J Thermal Stresses **21**(7) 715-725 (Oct 1998), 4A1411
Low temperature mixed mode fracture of a pressure vessel steel subject to prior loading, Eng Fracture Mech **61**(3-4) 387-405 (Sep-Nov 1998), 6A1407
Thermoelastic behavior of a transversely isotropic material containing a flat toroidal crack, J Thermal Stresses **21**(9) 881-895 (Dec 1998), 6A1408
Comparison and evaluation of creep crack growth rate and fracture time for Alloy 800 by the Q* parameter, Int J Pressure Vessels Piping **75**(15) 1065-1074 (Dec 1998), 7A1418
Thermoelastic fracture mechanics with regularized hypersingular boundary integral equations, Eng Anal Boundary Elements **23**(1) 89-96 (Jan 1999), 7A1419
Studies on tensile stress and crack growth of steam cured prestressed concrete members (Japanese), J Soc Mat Sci Japan **48**(1) 22-29 (Jan 1999), 8A867
Rapid crack growth in a thermoelastic solid under mixed-mode thermomechanical loading, IMA J Appl Math **62**(1) 31-44 (Feb 1999), 8A1387
Crack growth in creep-brittle materials, Eng Fracture Mech **62**(1) 1-142 (Jan 1999), 9A831
Experimental investigation of near crack tip creep deformation in alloy 800 at 650°C, Int J Fracture **91**(3) 233-268 (1998), 9A833
Oxidation failure of radiant heater tubes, Eng Failure Anal **6**(2) 101-112 (Apr 1999), 9A836
Modified crack closure integral based computation of stress intensity factors for 2D thermoelastic problems through BEM, Nucl Eng Des **187**(3) 277-290 (Mar 1999), 9A860
Thermal loading of a thin layer with circular debonding over a substrate, Int J Fracture **91**(3) 217-231 (1998), 9A866
Solution of an elliptical rigid inclusion with debondings in an infinite plane under the uniform heat flux, J Thermal Stresses **22**(2) 189-212 (Mar 1999), 9A1426
Thermomechanical fracture on a pressurized cylindrical vessel induced by a localized energy source, J Pressure Vessel Tech **121**(2) 160-169 (May 1999), 9A1427
Critical heat flux at high velocity channel flow with high subcooling, Nucl Eng Des **187**(2) 215-227 (Feb 1999), 9A1519
Thermal fracture in a biomaterial during rapid freezing, J Thermal Stresses **22**(3) 275-292 (Apr 1999), 10A1394
Maximum stress intensity factor for a circumferential crack in a finite-length thin-walled cylinder under transient radial temperature distribution, Eng Fracture Mech **63**(1) 23-38 (May 1999), 11A787
Thermoelectroelastic analysis of cracks in piezoelectric half-plane by BEM, Comput Mech **23**(4) 353-360 (May 1999), 12A687

412K. Thermal stresses of solids with phase change

Thermodynamical description of the martensitic transformation: A model with small volume of averaging, Arch Mech **50**(1) 53-81 (1998), 1A1371
Three-dimensional thermomechanical analysis of circumferentially welded thin-walled pipes, Int J Pressure Vessels Piping **75**(3) 237-247 (Mar 1998), 1A1372
Application of the BEM to numerical modeling of solidification - Part I: The one domain approach, J Theor Appl Mech **36**(2) 457-468 (1998), 2A94
Application of the BEM to numerical modeling of solidification - Part II: The micro-macro approach, J Theor Appl Mech **36**(2) 469-478 (1998), 2A95
Mechanism for formation of the residual stresses from quenching, Model Simulation Mat Sci Eng **6**(3) 273-291 (May 1998), 2A1326
Spatial perturbations in the solidification process due to mold delaminations, J Theor Appl Mech **36**(2) 321-330 (1998), 2A1327
Spatially periodic solutions in a 1D model of phase transitions with order parameter, Physica D **121**(3-4) 275-294 (Oct 1998), 3A1342
Properties of Fe doped β-HgS under hydrostatic pressure, Acta Phys Polonica A **94**(3) 570-574 (Sep 1998), 9A1428
Thermomechanical models of pure metal solidification on a periodic mold surface, J Thermal Stresses **22**(2) 125-158 (Mar 1999), 9A1429

412L. Composite materials

Design of particle reinforced heat conducting composites with interfacial thermal barriers, J Composite Mat **32**(14) 1322-1331 (1998), 1A604
Thermal expansion of particle-filled plastic encapsulant: A micromechanical characterization, Acta Mat **46**(12) 4287-4302 (Jul 1998), 1A608
Carbon-fiber-reinforced YMAS glass-ceramic-matrix composites - IV: Thermal residual stresses and fiber-matrix interfaces, Composites Sci Tech **58**(3-4) 409-418 (Mar-Apr 1998), 1A610
Interlaminar thermal stresses in polar-anisotropic circular plates, J Reinforced Plastics Composites **17**(11) 1024-1035 (1998), 1A689
Analysis of mechanisms governing fusion bonding of thermoplastic composites, J Thermoplastic Composite Mat **11**(4) 338-363 (Jul 1998), 1A806
Resistive susceptor design for uniform heating during induction bonding of composites, J Thermoplastic Composite Mat **11**(4) 321-337 (Jul 1998), 1A811
Long-term thermo-oxidative aging in composite materials: Failure mechanisms, Composites Sci Tech **58**(3-4) 355-368 (Mar-Apr 1998), 1A892
Analysis of free-edge stress and displacement fields in scarf joints subjected to a uniform change in temperature, Fatigue Fracture Eng Mat Struct **21**(6) 687-703 (1998), 1A1072
Application of a 3D heat flow model to treat laser drilling of carbon fiber composites, Acta Mat **46**(12) 4273-4285 (Jul 1998), 1A1285
Changes of mechanical properties of P-M Al-Cu composites as a result of hot deformation and heat treatment conditions, J Mech Behavior Mat **9**(1) 47-51 (1998), 1A1373
Exact results concerning thermoelastic properties of hollow sphere composites, Appl Math Mech **19**(5) 427-435 (May 1998), 1A1374
Stress rupture of unidirectional high performance thermoplastic composites in end-loaded bending at elevated temperatures - Part I: Experimental characterization of the failure mode, J Composite Mat **32**(14) 1311-1321 (1998), 1A1375
Thermal expansion behavior of particulate metal-matrix composites, Composites Sci Tech **58**(3-4) 369-376 (Mar-Apr 1998), 1A1376
Thermomechanically induced residual strains in Al-SiC_p metal-matrix composites, Composites Sci Tech **58**(3-4) 345-353 (Mar-Apr 1998), 1A1377
Two-point pade approximants for Stieltjes functions and their application to composite materials, Appl Math Comp Sci **8**(2) 417-434 (1998), 2A110
Homogenization of piezoelectric solid and thermodynamics, Reports Math Phys **40**(3) 585-598 (Dec 1997), 2T1328
Neural network-based optimal curing of composite materials, J Mat Processing Manuf Sci **6**(1) 39-62 (Jul 1997), 2A1329
Residual thermal stresses in metallic and intermetallic matrix composites after cooling from processing temperature, J Composite Tech Res **20**(3) 161-169 (Jul 1998), 2A1330
Thermal stresses in a bimaterial periodically layered composite due to the presence of interface cracks or rigid inclusions, J Theor Appl Mech **36**(2) 231-239 (1998), 2A1331
Modeling and control of the in-situ thermoplastic composite tape-laying process, J Dyn Syst Meas Control **120**(4) 507-515 (Dec 1998), 3A424
Prediction of springforward in continuous-fiber and polymer L-shaped parts, Composites Part A Appl Sci and Manuf **29A**(11) 1333-1342 (1998), 3A566
Comparison of measurements and modeling for pultrusion of a fiberglass-epoxy I-beam, J Reinforced Plastics Composites **17**(17) 1557-1579 (1998), 3A716
Effects of thermal aging on the mechanical behavior of K3B matrix material, J Thermoplastic Composite Mat **11**(5) 429-442 (Sep 1998), 3A1343
Titanium ply effects on the behavior of a hybrid thermoplastic composite laminate, J Thermoplastic Composite Mat **11**(5) 443-454 (Sep 1998), 3A1344
Effect of time and temperature on the flexural strength of a silica particle filled epoxy resin, J Composite Mat **32**(20) 1836-1864 (1998), 4A590
Compliance-derived strain determination in fiber (bundle) tests at high temperatures, Adv Composites Letters **7**(3) 69-73 (1998), 4A621
Thermal expansion behavior of unidirectional carbon-fiber-reinforced copper-matrix composites, Com-

posites Part A Appl Sci and Manuf **29A**(12) 1563-1567 (1998), 4A1412
Thermoelastic stress fluctuations in random-structure coated particulate composites, Eur J Mech A **17**(5) 763-788 (1998), 4A1413
Influence of fiber interconnections on the thermomechanical behavior of metal matrix composites consisting of a Zn-Al alloy reinforced with steel fibers, Acta Mat **46**(18) 6497-6509 (Nov 1998), 5A504
Theoretical approach to the thermal transient mechanical loss in Mg matrix composites, Acta Mat **46**(17) 6103-6114 (Nov 1998), 5A522
Adhesively bonded assemblies with identical nondeformable adherends and nonhomogeneous adhesive layer: Predicted thermal stresses in the adhesive, J Reinforced Plastics Composites **17**(18) 1588-1606 (1998), 5A1333
Study of thermosensitive heterogeneous media via space-time homogenization, Eur J Mech A **17**(6) 939-968 (Nov-Dec 1998), 5A1334
Thermal stress on the interface between particulate and matrix of functionally gradient material, J Beijing IT **18**(4) 401-405 (Aug 1998), 5A1335
Active control model of laminated piezothermoelastic plate, Int J Solids Struct **36**(13) 1925-1947 (May 1999), 7A576
Effective coefficient of thermal expansion in thermal bending of composites undergoing linear heat flow, J Composite Mat **33**(2) 177-186 (1999), 7A1420
Effects of surface geometry of composites on thermal stress distribution: A numerical study, Composites Sci Tech **59**(1) 41-54 (Jan 1999), 7A1421
Models for predicting thermomechanical properties of 3D orthogonal woven composites, J Reinforced Plastics Composites **18**(2) 151-185 (1999), 7A1422
Residual stress analysis of functionally gradient materials, Mech Res Commun **26**(1) 55-60 (Jan-Feb 1999), 7A1423
Thermal residual strains and stresses in Al_2O_3/Al composites with interpenetrating networks, Acta Mat **47**(2) 565-577 (Jan 1999), 7A1424
Type of $r^{-\omega}\ln(r)$ stress singularities in a two-dissimilar-materials joint under thermal loading, J Thermal Stresses **22**(1) 101-121 (Jan-Feb 1999), 7A1425
Effect of interfacial reactions on residual stress fields within composites, J Composite Mat **33**(4) 325-350 (1999), 8A583
Thermoelastic disc test for the mechanical characterization of fiber-reinforced molded composites: Theory, Composites Sci Tech **59**(3) 371-378 (Feb-Mar 1999), 8A592
Thermoelastic disc test for the mechanical characterization of fiber-reinforced molded composites: Application, Composites Sci Tech **59**(3) 379-389 (Feb-Mar 1999), 8A611
Residual strength degradation of cross-ply titanium matrix composite due to elevated temperature, J Composite Tech Res **21**(1) 16-24 (Jan 1999), 8A746
Micromechanics models for mechanical and thermomechanical properties of 3D through-the-thickness angle interlock woven composites, Composites Part A Appl Sci and Manuf **30A**(5) 637-648 (1999), 9A653
Heat conduction equations for multilayer anisotropic shells, J Thermal Stresses **22**(2) 241-254 (Mar 1999), 9A1386
Existence of energy minimizing configurations for mixtures of two imperfectly bonded conductors, Control and Cybernetics **27**(2) 217-234 (1998), 9A1430
Thermal shock cracking in a metal-particle-reinforced ceramic matrix composite, Eng Fracture Mech **62**(4-5) 339-350 (Mar 1999), 9A1431
Thermal stresses and thermal expansion in a uniformly heated functionally graded cylinder, J Thermal Stresses **22**(2) 177-188 (Mar 1999), 9A1432
Mixed variational formula for the thermal bending of laminated plates, J Thermal Stresses **22**(3) 347-365 (Apr 1999), 10A518
Thermoelastic design of symmetric laminates using lamination parameters, JSME Int J Ser A **40**(4) 389-397 (Oct 1997), 10A1052
Effect of Si_3N_4 whiskers on the high-temperature creep behavior of an Al-Fe-V-Si alloy matrix composite, Composites Sci Tech **59**(5) 769-773 (Apr 1999), 10A1395
High-temperature creep behavior of 2124 aluminium alloys with and without particulate and SiC-whisker reinforcement, Composites Sci Tech **59**(5) 737-747 (Apr 1999), 10A1396
Jordan canonical form solution for thermally induced deformations of cross-ply laminated composite beams, J Thermal Stresses **22**(3) 331-346 (Apr 1999), 10A1397
Thermal stresses in functionally graded material of particle-reinforced composite, JSME Int J Ser A **41**(2) 178-184 (Apr 1998), 10A1398
Thermoelastic model for in-situ consolidation of thermoplastic composites, J Thermal Stresses **22**(3) 305-329 (Apr 1999), 10A1399
Predictive measure of thermomechanical coupling in elasto-viscoplastic composites, Composites Sci Tech **59**(7) 1023-1031 (May-Jun 1999), 11A501
Thermal stability of SiC fiber prepared by an irradiation-curing process, Composites Sci Tech **59**(6) 793-799 (May 1999), 11A522
Fiber strength parameters measured in situ for ceramic-matrix composites tested at elevated temperature in vacuum and in air, Composites Sci Tech **59**(6) 801-811 (May 1999), 11A810
Structural thermo-mechanical model of textile composite materials at high temperatures, Composites Sci Tech **59**(7) 1041-1053 (May-Jun 1999), 11A1455
Thermoelastic properties of short-fiber-reinforced thermoplastics, Composites Sci Tech **59**(6) 911-923 (May 1999), 11A1456
Theoretical and experimental evaluation of double-notch shear strength of G-10CR glass-cloth and epoxy laminates at cryogenic temperatures, J Eng Mat Tech **121**(3) 367-373 (Jul 1999), 12A630
Effect of thermal aging on the Mode-I interlaminar fracture behavior of a high-temperature IM7-LaRC-RP46 composite, Composites Sci Tech **59**(8) 1271-1286 (Jun 1999), 12A830
Thermal stress field at the interface edge in dissimilar materials (Japanese), J Soc Mat Sci Japan **48**(4) 365-375 (Apr 1999), 12T1423

412Y. Computational techniques

Process induced stresses of a flip-chip packaging by sequential processing modeling technique, J Electron Packaging **120**(3) 309-313 (Sep 1998), 1A560
Optimization of local heating for a spherical shell made of titanium alloy BT-23, Arch Mech **50**(1) 113-126 (1998), 1A959
Applying the Kalman filter method for solving inverse thermal problems, Arch Thermodyn **18**(1-2) 87-98 (1997), 1A1378
Finite deformation coupled thermomechanical problems and "generalized standard materials", Int J Numer Methods Eng **42**(6) 1025-1043 (Jul 1998), 1A1379
Idea of thin-plate thermal mirror - II: Mirror created by a constant heat flux, Arch Mech **50**(2) 219-246 (1998), 1A1380
Isovector fields and similarity solutions of nonlinear thermoelasticity, Int J Eng Sci **36**(10) 1103-1126 (Aug 1998), 1A1381
Modeling and numerical analysis of the phenomenon of reduction in thermal conductivity in small thickness samples of some selected synthetic materials, J Tech Phys **39**(1) 91-104 (1998), 1A1382
Package-to-board attach reliability: Methodology and case study on OMPAC package, J Electron Packaging **120**(3) 290-295 (Sep 1998), 1A1383
Automatic simulation of a sequence of hot-former forging processes by a rigid-thermoviscoplastic FEM, J Eng Mat Tech **120**(4) 291-296 (Oct 1998), 2A1332
Axi-symmetrical contact problem during braking with frictional heating and wear, J Theor Appl Mech **36**(2) 331-346 (1998), 2T1333
Model of thermoelastic dynamic contact in conditions of frictional heat and wear, J Theor Appl Mech **36**(2) 305-320 (1998), 2A1334
Thermal optimization in transient thermoelasticity using response surface approximations, Int J Numer Methods Eng **43**(1) 1-21 (Sep 1998), 2A1335
Thermoelastic contact problem with frictional heating for the punch of functionally graded materials, J Theor Appl Mech **36**(2) 279-289 (1998), 2A1336
Effect of temperature on dislocation emission from crack tip for BCC metal Mo, Acta Mech Solida Sinica **11**(3) 189-198 (1998), 3A841
New time domain BE formulation for generalized dynamic coupled thermoelasticity, Eng Anal Boundary Elements **22**(2) 111-116 (Sep 1998), 3A1345
Fast convergent series solutions for thermal bending of thin rectangular plates, J Thermal Stresses **21**(7) 763-775 (Oct 1998), 4A644
Transient elastic and viscoelastic thermal stresses during laser drilling of ceramics, J Heat Transfer **120**(4) 892-898 (Nov 1998), 4A1402
Numerical analysis of coupled thermomechanical frictional contact problems: Computational model and applications, Arch Comput Methods Eng **5**(3) 243-301 (1998), 5A446
Application of Taylor transformation to the thermal stresses in isotropic annular fins, J Thermal Stresses **21**(8) 781-809 (Nov 1998), 5A1336
Numerical solution for a nonlinear, 1D problem of thermoelasticity, J Comput Appl Math **100**(1) 53-76 (Nov 1998), 5A1337
Evaluation of transverse thermal stresses in composite plates based on first-order shear deformation theory, Comput Methods Appl Mech Eng **167**(3-4) 355-368 (Dec 1998), 6A1409
Improvement of the convergence of method of supplementary deformations in boundary value thermoplasticity problems in deformation processes along the small curvature trajectories (Russian), Prikl Mekh (Appl Mech) **34**(8) 75-81 (1998), 6A1410
Alternative finite difference method for post-processing thermoelastic data using compatibility, J Strain Anal Eng Des **33**(6) 437-447 (Nov 1998), 7A55
Refined theory of laminated anisotropic shells for the solution of thermal stress problems, J Thermal Stresses **22**(1) 75-100 (Jan-Feb 1999), 7A574
Investigation of PWB layout by genetic algorithms to maximize fatigue life, J Electron Packaging **121**(1) 31-36 (Mar 1999), 7A1426
New FE for treating plane thermomechanical heterogeneous solids, Int J Numer Methods Eng **44**(4) 567-585 (Feb 1999), 7A1427
Optimization of material composition of nonhomogeneous hollow circular cylinder for thermal stress relaxation making use of neural network, J Thermal Stresses **22**(1) 1-22 (Jan-Feb 1999), 7A1428
Two-dimensional problems for thermoelasticity, with two relaxation times in spherical regions under axisymmetric distributions, Int J Eng Sci **37**(3) 299-314 (Feb 1999), 7A1429
Experimental validation of calculations of decay heat induced by 14 MeV neutron activation of ITER materials, Fusion Eng Des **45**(1) 75-88 (Mar 1999), 8A1388
Mechanical behavior and sound generation efficiency of prestressed, elastically clamped and thermomechanically driven thin film sandwiches, J Micromech Microeng **9**(1) 19-29 (Mar 1999), 9T489
Exact boundary integral transformation of the thermoelastic domain integral in BEM for general 2D anisotropic elasticity, Comput Mech **23**(1) 87-96 (Feb 1999), 9A1433
Thermoelasto-plastic constitutive law for inhomogeneous materials based on an incremental Mori-Tanaka approach, Comput Struct **71**(2) 197-214 (Apr 1999), 9A1434
Thermoeleastic rolling contact problems in wheel-rail systems, Machine Dyn Prob **20** 91-100 (1998), 9T1435
Thermostructural analysis of X-34 wing leading-edge tile thermal protection system, J Spacecraft Rockets **36**(2) 189-198 (Mar-Apr 1999), 10A1400
Recent advance in the assessment of creep rupture data, Nucl Eng Des **190**(3) 287-296 (Jun 1999), 12A800
Finite element approximation to a contact problem in linear thermoelasticity, Math Comput **68**(227) 1013-1024 (Jul 1999), 12A1424
Numerical modeling of resistance brazing process behavior in joining electrical contact materials, J Eng Mat Tech **121**(3) 330-335 (Jul 1999), 12A1425

412Z. Experimental techniques

Measurement of specimen surface temperature in high-speed tension and torsion tests, Int J Impact Eng **21**(6) 473-488 (Jul 1998), 1A1284
Measurement of tool face temperature in orthogonal diamond cutting (Japanese), J Japan Soc Precision Eng **64**(6) 892-896 (Jun 1998), 1A1384
Measurement of tool face temperature in turning with single crystal diamond, J Japan Soc Precision Eng **64**(7) 1088-1089 (Jul 1998), 2T1337
Polymer coating as a strain witness in thermoelasticity, J Strain Anal Eng Des **33**(3) 223-232 (May 1998), 2A1338
Structure characterization of nonwoven textile materials by image analyzer, Fibres Textiles in E Europe **6**(1) 73-75 (Jan-Mar 1998), 2A1339
Measurement of uniform and localized heat dissipation induced by cyclic loading, Exp Mech **38**(4) 289-294 (Dec 1998), 5A749
Recent advancements of Moire and microscopic Moire interferometry for thermal deformation analyses of microelectronics devices, Exp Mech **38**(4) 278-288 (Dec 1998), 5A753
Measurement of temperature of CBN tool in turning of high hardness steel, J Japan Soc Precision Eng **64**(11) 1684-1688 (Nov 1998), 6A806
Technique for measuring the dynamic behavior of materials at high temperatures, Int J Plasticity **14**(12) 1279-1292 (1998), 6A978
Experimental validation of calculations of decay heat induced by 14 MeV neutron activation of ITER materials, Fusion Eng Des **45**(1) 75-88 (Mar 1999), 8A1388
DSC studies of some bismuth-phosphate glasses, Acta Phys Polonica A **94**(4) 661-670 (Oct 1998), 9A1436
Low-temperature structural phase transition in monoclinic $RbDy(WO_4)_2$ crystal, Acta Phys Polonica A **94**(1) 71-77 (Jul 1998), 9T1437
Role of the thermal stress on the magnetophonon peak structure in the parallel transport of the GaAS-AlGaAs multiple quantum wells, Acta Phys Polonica A **94**(3) 597-602 (Sep 1998), 9T1438
Thermoelastic effect in austenitic steel referred to its hardening, J Theor Appl Mech **37**(2) 349-368 (1999), 10A951
Viscoelastic behavior of polysiloxane-based compositions over a wide frequency and temperature range, Appl Mech Eng **4**(S) 319-323 (1999), 11A1457
Estimation of thermal contact resistance based on electrical contact resistance measurements, Int J Japan Soc Precision Eng **33**(1) 59-61 (Mar 1999), 12T1426
Linear birefringence anomalies in crystals of triglycine family, Acta Phys Polonica A **95**(6) 997-1004 (Jun 1999), 12T1427

414. MASS TRANSFER

Physico-chemical processes occurring inside a degrading 2D anisotropic porous medium, Int J Heat Mass Transfer **41**(24) 4139-4150 (Dec 1998), 5A1459

414B. Convection dominated transfer

Mass transfer effects on unsteady free convection Couette flow, Appl Mech Eng **3**(1) 163-169 (1998), 1T1385
Heat and Mass Transfer (Springer-Verlag, Berlin, 1998) 2R29
Natural convection mass transfer along a dissolution boundary layer in an isothermal binary metallic system, Int J Heat Mass Transfer **41**(23) 3759-3769 (Dec 1998), 3A1346
Computational Techniques for Complex Transport Phenomena (Cambridge UP, New York, 1997) 4R30
Local heat (mass) transfer in a rotating square channel with ejection holes, J Thermophys Heat Transfer **12**(4) 589-595 (Oct-Dec 1998), 4A1324
Heat Transfer Division - 1998, Volume 4: Heat Transfer in Material Processing (ASME, New York, 1998) 7N19
Advances in Heat and Mass Transfer in Biotechnology - 1998 (ASME, New York, 1998) 7N37
Mass transfer outside a horizontal tube for an indirect evaporative cooler (Chinese), J Xi'an Jiaotong Univ **33**(3) 68-71 (1999), 8A1389
Three-dimensional flow-aligning algorithm for convection-diffusion problems, Appl Math Lett **12**(4) 67-70 (May 1999), 9A1439
Annual Review of Heat Transfer, Volume X (Begell House, New York, 1999) 12N33
Universal properties of chaotic transport in the presence of diffusion, Phys Fluids **11**(8) 2044-2057 (Aug 1999), 12A121
Effect of Schmidt number on turbulent scalar mixing in a jet-in-crossflow, Int J Heat Mass Transfer **42**(20) 3727-3738 (Oct 1999), 12A1159
Large-scale properties of passive scalar advection, Phys Fluids **11**(8) 2269-2279 (Aug 1999), 12T1208
Heat-mass transfer characteristics in two-phase smooth channels with a sharp 180° turn, Int J Heat Mass Transfer **42**(20) 3757-3770 (Oct 1999), 12A1319
Free convective mass transfer at up-pointing pyramids of constant inclined length, Int J Heat Mass Transfer **42**(18) 3545-3548 (Sep 1999), 12T1428

414D. Diffusion

Enhanced lumped-differential formulations of diffusion problems, Appl Math Model **22**(3) 137-152 (Mar 1998), 1A1386
Monotone method for diffusion equations with nonlinear diffusion coefficients, Nonlinear Anal **34**(1) 113-142 (Oct 1998), 1T1387
"Triangular" reaction-diffusion systems with integrable initial data, Nonlinear Anal **33**(7) 785-801 (Sep 1998), 1T1390
Heat transfer computations using an anisotropic model (French), Rev Francaise Mec **0**(2) 73-79 (Jun 1998), 1A1399
Nonlinear many-staged diffusion, Acta Phys Polonica A **93**(5-6) 731-735 (May-Jun 1998), 2T1340
Taylor dispersion on a fractal, Acta Phys Polonica B **B29**(6) 1539-1549 (Jun 1998), 2A1341
Quasilinearization method in the system of reaction diffusion equations, Appl Math Comput **97**(2-3) 223-235 (Dec 1998), 2A1354
Simplified methods for prediction of moisture diffusion in polymer matrix composites with cyclic environmental conditions, Polymers and Polymer Composites **6**(4) 189-203 (1998), 3A551
Chemical resistivity of very low density polyethylene geomembranes: Sorption-desorption diffusion and swelling, Polymers and Polymer Composites **6**(4) 205-213 (1998), 3A1347
Diffusion and transport of aromatic solvents through prevulcanized natural rubber-styrene butadiene rubber latex blends, Polymers and Polymer Composites **6**(4) 237-253 (1998), 3A1348
Layer merging during solidification of supereutectic NH_4Cl-H_2O system, Int J Heat Mass Transfer **41**(22) 3669-3674 (Nov 1998), 3T1349
Positive solutions and dynamics of some reaction diffusion models in HIV transmission, Nonlinear Anal **35**(3) 323-341 (Feb 1999), 3T1350
Similarity solutions in the theory of curvature driven diffusion along planar curves - Part I: Symmetric curves expanding in time, Physica D **121**(3-4) 263-274 (Oct 1998), 3A1351

Metastable traveling-wave solutions of singularly-perturbed reaction-diffusion equations, European J Appl Math **9**(4) 397-416 (Aug 1998), 3A1353
Multidimensional reaction diffusion equations with nonlinear boundary conditions, SIAM J Appl Math **58**(5) 1622-1647 (Oct 1998), 3A1354
Localized spatial homogenization and large diffusion, SIAM J Math Anal **29**(6) 1361-1380 (Nov 1998), 4A1354
A posteriori error estimators for convection-diffusion equations, Numer Math **80**(4) 641-663 (Oct 1998), 4A1414
Bifurcation to spiral waves in reaction-diffusion systems, SIAM J Math Anal **29**(6) 1399-1418 (Nov 1998), 4A1418
Blow-up in nonlocal reaction-diffusion equations, SIAM J Math Anal **29**(6) 1301-1334 (Nov 1998), 4A1419
Stress-driven diffusion in a drying liquid paint layer, European J Appl Math **9**(5) 447-461 (Oct 1998), 5A1307
Numerical simulation model for predicting air quality along urban main roads - First report: Development of atmospheric diffusion model, Heat Transfer Japan Res **27**(7) 483-496 (1998), 5A1338
Convective instability of reaction fronts: Linear stability analysis, European J Appl Math **9**(5) 507-525 (Oct 1998), 5A1352
Boundedness and blow-up behavior for reaction-diffusion systems in a bounded domain, Nonlinear Anal **35**(7) 833-844 (Mar 1999), 6T1411
Modeling of coupled deformation-diffusion in non-porous solids, Int J Eng Sci **37**(1) 1-24 (Jan 1999), 6A1412
Non-classical solution of the inhomogeneous nonlinear diffusion equation, Appl Math Comput **98**(2-3) 103-108 (Feb 1999), 6A1413
Semi-circulant preconditioner for the convection-diffusion equation, Numer Math **81**(2) 211-248 (Dec 1998), 6A1414
Penetrative convection and multi-component diffusion in a porous medium, Adv Water Resources **22**(4) 399-412 (Dec 1998), 6A1470
Algorithm to accelerate simulations of simultaneous heat and gas transfer in gas-filled foams, J Thermal Envelope Build Sci **22** 230-263 (Jan 1999), 7A1317
Conservation laws with vanishing nonlinear diffusion and dispersion, Nonlinear Anal **36**(2) 213-230 (Apr 1999), 7T1430
Linearized factorization techniques for multidimensional reaction-diffusion equations, Appl Math Comput **100**(2-3) 201-222 (May 1999), 8A72
Diffusion induced unsteady boundary flows in a wedge-shaped trough, J Appl Math Mech **62**(5) 743-748 (1998), 8A1390
Convergence of finite volume schemes for semilinear convection diffusion equations, Numer Math **82**(1) 91-116 (Mar 1999), 9A1440
Asymptotic behavior in convection-diffusion processes, Nonlinear Anal **37**(3) 301-318 (Jul 1999), 11T91
Statistical solutions to turbulent diffusion, Nonlinear Anal **37**(5) 635-675 (Aug 1999), 11T1269
New exact solutions of nonlinear reaction-diffusion equations, Reports Math Phys **41**(3) 333-349 (Jun 1998), 11A1458
Persistence of a discrete reaction-diffusion predator-prey system, Nonlinear Anal **37**(5) 627-634 (Aug 1999), 11T1459
Solute redistribution after back-diffusion in cellular and dendritic growth of binary alloys, Bull Polish Acad Sci Tech Sci **46**(3) 277-288 (1998), 11T1460
Global initial boundary-value problems for reaction-diffusion systems with balance conditions, Nonlinear Anal **37**(8) 971-995 (Sep 1999), 12T1429
Mass diffusion-controlled bubbling and optimum schedule of thermal degradation of polymeric binders in molded powders, Int J Heat Mass Transfer **42**(17) 3307-3329 (Sep 1999), 12A1430
Modeling of diffusion in a micro-cracked composite laminate using approximate solutions, J Composite Mat **33**(10) 872-905 (1999), 12A1431
Transport in diffusion-substitution systems, Heat and Mass Transfer Warme **35**(1) 49-52 (May 1999), 12A1432

414E. Convection with diffusion

Boundary element method analysis for the transient conduction-convection in 2D with spatially variable convective velocity, Appl Math Model **22**(1-2) 81-112 (Jan-Feb 1998), 1A1323
Generalized integral transform technique in transient convection-diffusion: Theory, applications and research needs, J Brazilian Soc Mech Sci **20**(2) 179-200 (Jun 1998), 1A1388
Model of mixing and transport in wavy Taylor-Couette flow, Physica D **121**(1-2) 163-174 (Oct 1998), 3A1057
Mass transfer from rotating circular cylinders in a submerged slot jet of air, Int J Heat Mass Transfer **41**(22) 3441-3450 (Nov 1998), 3A1352
Numerical experiments in scalar diffusion under stochastic convection, Appl Sci Res **59**(2-3) 127-139 (1997), 4A1217
Interior blowup in a convection-diffusion equation, SIAM J Math Anal **29**(6) 1447-1458 (Nov 1998), 4A1415
Unsteady flow past an impulsively started vertical plate with heat and mass transfer, Heat and Mass Transfer Warme **34**(2-3) 187-193 (Oct 1998), 5A1186
Heat (mass) transfer between an impinging jet and a rotating disk, Heat and Mass Transfer Warme **34**(2-3) 195-201 (Oct 1998), 5A1209
Air-water mass transfer of organics from shallow ponds under laminar recirculation, Int J Heat Mass Transfer **42**(1) 165-179 (Jan 1999), 5A1339
Combined mass and heat transfer during nonisothermal absorption in gas-liquid slug flow with small bubbles in liquid plugs, Int J Heat Mass Transfer **42**(1) 153-163 (Jan 1999), 5A1340
Dispersion of solute in a fluid flowing through a curved tube with absorbing walls, Quart J Mech Appl Math **51**(4) 577-598 (Nov 1998), 5A1341
Effect on an unsteady external flow on mass transfer to cavities, Int J Heat Mass Transfer **42**(4) 673-683 (Feb 1999), 5A1342
Fluid mixing and local mass transfer characteristics in a grooved channel for self-sustained oscillatory flow, Heat Transfer Japan Res **27**(7) 522-534 (1998), 5A1343
Lid-driven cavity with heat and mass transport, Int J Heat Mass Transfer **42**(5) 833-853 (Mar 1999), 5A1344
Mass transfer in turbulent impinging slot jets, Int J Heat Mass Transfer **42**(5) 873-887 (Mar 1999), 5A1345
Mass transfer of CO_2 through liquid CO_2-water interface, Int J Heat Mass Transfer **41**(24) 4315-4325 (Dec 1998), 5A1346
Numerical analysis of thermosolutal Marangoni and natural convection flows, Numer Heat Transfer A **34**(6) 633-652 (Nov 1998), 5A1347
CML models and the nonlinearity of turbulence, Appl Math Mech **19**(9) 881-887 (Sep 1998), 6A1415
One-step wave equation model to solve advection-diffusion equation (Chinese), J Huazhong Univ Sci Tech **26**(10) 29-31 (Oct 1998), 6A1416
Dynamics of Atmospheric Flows: Atmospheric Transport and Diffusion Processes (Comput Mech, Billerica MA, 1998) 7N36
Lewis number under supercritical conditions, Int J Heat Mass Transfer **42**(6) 961-970 (Mar 1999), 7A1431
Mechanisms of thermo-solutal transport and segregation in high-pressure liquid-encapsulated Czochralski crystal growth, J Heat Transfer **121**(1) 148-159 (Feb 1999), 7A1432
Optimization of inlet concentration profile for uniform deposition in a cylindrical chemical vapor deposition chamber, Int J Heat Mass Transfer **42**(6) 1141-1146 (Mar 1999), 7T1433
Parallel algorithms of precise integration of convection-diffusion equations (Chinese), J Dalian Univ Tech **39**(1) 17-21 (Jan 1999), 7A1434
Chaotic mixing and mass transfer enhancement by pulsatile laminar flow in an axisymmetric wavy channel, Int J Heat Mass Transfer **42**(14) 2571-2581 (Jul 1999), 8A1391
Energy wheel effectiveness - Part I: Development of dimensionless groups, Int J Heat Mass Transfer **42**(12) 2161-2170 (Jun 1999), 8A1392
Energy wheel effectiveness - Part II: Correlations, Int J Heat Mass Transfer **42**(12) 2171-2185 (Jun 1999), 8A1393
Inverse problem of coupled heat and moisture transport for prediction of moisture distributions in an annular cylinder, Int J Heat Mass Transfer **42**(14) 2661-2672 (Jul 1999), 8A1394
Process intensification: Heat and mass transfer characteristics of liquid films on rotating discs, Int J Heat Mass Transfer **42**(14) 2543-2556 (Jul 1999), 8A1395
Turbulent mass transfer in the developing diffusion layer at large Schmidt numbers, Int J Heat Mass Transfer **42**(13) 2357-2362 (Jul 1999), 8A1396
Modeling of multiphase wax deposition, J Energy Resources Tech **121**(2) 81-85 (Jun 1999), 9A1441
Mathematical and Physical Modeling of Materials Processing Operations (CRC Press, Boca Raton FL, 1999) 10N26
Numerical evaluation of the Graetz series, Int J Heat Mass Transfer **42**(15) 3013-3017 (Aug 1999), 10T1305
Marangoni instability of a layer of binary liquid in the presence of nonlinear Soret effect, Int J Heat Mass Transfer **42**(15) 3007-3011 (Aug 1999), 10T1310
Mixed convection heat and mass transfer in rectangular ducts rotating about a parallel axis, Int J Heat Mass Transfer **42**(15) 2955-2965 (Aug 1999), 10A1313
Angular and transient characteristics of circular electro-chemical friction probes, Int J Heat Mass Transfer **42**(16) 3183-3188 (Aug 1999), 11A1461
Boundary retention effects upon contaminant dispersion in secondary flows, Z Angew Math Mech **79**(5) 335-352 (1999), 11A1462
Heat and mass transfer dynamics in the microchannel adsorption reactor, Microscale Thermophys Eng **3**(2) 111-139 (Apr-Jun 1999), 11A1463
Improving diffusion-controlled microgravity experiments by facility orientation, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 415-427 (1998), 11A1464
Numerical study on heat and mass transfer in falling film crystallization by an integrated model, Heat Transfer Asian Res **28**(4) 307-321 (1999), 11A1465
Modeling of the quenching in cylindrical and annular reactors, Solar Energy **66**(2) 151-163 (Jun 1999), 12A1310
Analysis of local shellside heat and mass transfer in the shell-and-tube heat exchanger with disc-and-doughnut baffles, Int J Heat Mass Transfer **42**(18) 3509-3521 (Sep 1999), 12A1389
Analytical solutions of 3D convection-dispersion problems with time dependent coefficients, Z Angew Math Mech **79**(6) 411-421 (1999), 12A1433

414F. Double diffusion and other combined effects

Exact and approximate solutions to the double-diffusive Marangoni-Benard problem with cross-diffusive terms, J Fluid Mech **366** 109-133 (Jul 1998), 1A1389
Double-diffusive convection instability in a vertical porous enclosure, J Fluid Mech **368** 263-289 (Aug 1998), 3A1437
Coupling of waves and convection, J Fluid Mech **372** 231-271 (Oct 1998), 4A1416
Effect of chemical equilibrium on the formation of stable stratification, Appl Sci Res **59**(2-3) 283-298 (1997), 4A1417
Marangoni convection in binary mixtures with Soret effect, J Fluid Mech **375** 143-177 (Nov 1998), 5A949
Double diffusive instability in a tall thin slot, J Fluid Mech **375** 203-233 (Nov 1998), 5A1348
Double-diffusive convection in an annular enclosure with a hot inner cylinder, Exp Heat Transfer **11**(4) 329-340 (Oct-Dec 1998), 5A1349
Experimental study of double-diffusive convection in a rotating annulus with lateral heating, Int J Heat Mass Transfer **42**(5) 821-832 (Mar 1999), 5A1350
Onset of oscillatory flows in double-diffusive convection, Int J Heat Mass Transfer **42**(4) 629-643 (Feb 1999), 5A1351
Effect of air bubbles on the diffusion-controlled solidification of water and aqueous solutions of ammonium chloride, Int J Heat Mass Transfer **42**(6) 1097-1110 (Mar 1999), 7A1435
Interfacial breakdown of double-diffusive convective layers by a horizontal temperature gradient, Int J Heat Mass Transfer **42**(8) 1479-1489 (Apr 1999), 7A1436
Thermosolutal convection in the presence of both vertical and horizontal temperature gradients, J Appl Mech **66**(1) 181-196 (Mar 1999), 8A1310
Double diffusive instability in an inclined cavity, Phys Fluids **11**(3) 549-559 (Mar 1999), 8A1397
Salt-finger convection generated by thermal and solutal capillary motion in a stratified fluid, Int J Heat Mass Transfer **42**(12) 2143-2159 (Jun 1999), 8A1398
Sheared salt fingers: Instability in a truncated system, Phys Fluids **11**(5) 1161-1168 (May 1999), 9A1214
Experimental investigation into the effects of grain transport on columnar to equiaxed transition during dendritic alloy solidification, J Heat Transfer **121**(2) 430-437 (May 1999), 9A1442
Experimental diagnostics to determine the local composition of an aqueous copper sulfate solution, Heat Transfer Asian Res **28**(5) 367-378 (1999), 12A1434
Experimental study of a double-diffusive two-layer system in a laterally heated enclosure, Int J Heat Mass Transfer **42**(19) 3619-3629 (Oct 1999), 12A1435

414G. Chemical reaction

"Triangular" reaction-diffusion systems with integrable initial data, Nonlinear Anal **33**(7) 785-801 (Sep 1998), 1T1390
Mass transfer effects on unsteady mixed convection flow with chemical reaction, Appl Mech Eng **2**(4) 449-456 (1997), 1T1391
Application of information statistical theory to the description of the effect of heat conduction on the chemical reaction rate in gases, Acta Phys Polonica B **B29**(6) 1633-1646 (Jun 1998), 2T1342
Discrete model for the interface evolution in a 2D space with some well-defined set of annihilation-creation rules, Acta Phys Polonica B **B29**(6) 1647-1662 (Jun 1998), 2T1343
Growth of nonequilibrium spatial correlations in a model reaction diffusion system: The effect of the diffusive flow relaxation, Acta Phys Polonica B **B29**(6) 1691-1704 (Jun 1998), 2A1344
Microscopic simulations of systems with model chemical reactions, Acta Phys Polonica B **B29**(6) 1663-1690 (Jun 1998), 2T1345
Nonequilibrium effects in chemical wave fronts: Microscopic simulations and analytical approach, Acta Phys Polonica B **B29**(6) 1623-1632 (Jun 1998), 2A1346
Statistical properties of dynamical systems with disturbances: Variation in parameters, Acta Phys Polonica B **B29**(6) 1717-1735 (Jun 1998), 2A1347
Metastable traveling-wave solutions of singularly-perturbed reaction-diffusion equations, European J Appl Math **9**(4) 397-416 (Aug 1998), 3A1353
Multidimensional reaction diffusion equations with nonlinear boundary conditions, SIAM J Appl Math **58**(5) 1622-1647 (Oct 1998), 3A1354
Bifurcation to spiral waves in reaction-diffusion systems, SIAM J Math Anal **29**(6) 1399-1418 (Nov 1998), 4A1418
Blow-up in nonlocal reaction-diffusion equations, SIAM J Math Anal **29**(6) 1301-1334 (Nov 1998), 4A1419
Convective instability of reaction fronts: Linear stability analysis, European J Appl Math **9**(5) 507-525 (Oct 1998), 5A1352
Optimization of gas diffusion in reactive media, with simultaneous heat and mass transfer and chemical reaction (French), Int J Heat Mass Transfer **42**(2) 303-321 (Jan 1999), 5A1353
Transport to a chemically active thin liquid film over a spinning disk, J Energy Resources Tech **120**(4) 293-298 (Dec 1998), 5A1354
Asymptotic solution of stiff PDEs with the CSP method: The reaction diffusion equation, SIAM J Sci Comput **20**(3) 781-810 (Oct 1998), 10T1401
Effect of chemical reaction on the dispersion of a solute in a porous medium, Appl Math Model **23**(7) 557-566 (Jul 1999), 11A1466

414H. Injection or suction

Heat and mass transfer over an accelerating surface with heat source in presence of suction and blowing, Int J Eng Sci **37**(2) 189-211 (Jan 1999), 7A1437
Concept of separate aftercooling for locomotive diesel engines, J Eng Gas Turbines Power **121**(2) 205-210 (Apr 1999), 8A1399
Simulation and experimental analysis of diesel fuel-injection systems with a double-stage injector, J Eng Gas Turbines Power **121**(2) 186-196 (Apr 1999), 8A1400
Engines: An Introduction (Cambridge UP, UK, 1999) 11R28

414I. Porous media

Reducing mixing at the outlet bore of a cylinder, Arch Appl Mech **68**(6) 395-406 (Jul 1998), 1A1392
Validity of diffusion-dispersion tests in soils, Eng Trans **45**(3-4) 395-417 (1997), 1A1393
Recent Advances in Problems of Flow and Transport in Porous Media (Kluwer, MA, 1998) 3N29
Diffusion in Natural Porous Media: Contaminant Transport, Sorption/Desorption, and Dissolution Kinetics (Kluwer, Boston, MA, 1998) 5R36
Conjugate heat and mass transfer in metal hydride beds in the hydriding process, Int J Heat Mass Transfer **42**(2) 379-382 (Jan 1999), 5T1355
Double diffusive convection in dual-permeability, dual-porosity porous media, Int J Heat Mass Transfer **42**(3) 437-454 (Feb 1999), 5A1454
Numerical study of heat and mass transfer in an anisotropic porous enclosure due to constant heating and cooling, Numer Heat Transfer A **34**(8) 887-905 (Dec 1998), 6A1361
Investigation of heat and moisture migration in unsaturated soil under natural boundary conditions, Heat Transfer Asian Res **28**(1) 3-17 (1998), 6A1417
Heat-induced moisture transport in the vicinity of a spherical heat source, Int J Numer Anal Methods Geomech **22**(12) 969-981 (Dec 1998), 6A1461
Direct statistical simulation of gas mixture mass transfer in a porous layer with condensation of one of the components and absorption of another, Int J Heat Mass Transfer **42**(11) 2063-2069 (Jun 1999), 7A1438
Moisture transport in intensive microwave heating of biomaterials: A multiphase porous media model, Int J Heat Mass Transfer **42**(8) 1501-1512 (Apr 1999), 7A1439
Heat and mass transfer with phase change in a porous structure partially heated: Continuum model and pore network simulations, Int J Heat Mass Transfer **42**(14) 2557-2569 (Jul 1999), 8A1371
Double-diffusive convection in an annular vertical porous layer, Int J Heat Mass Transfer **42**(13) 2313-2325 (Jul 1999), 8A1401
Experimental analysis of unsteady heat and moisture transfer around a heated cylinder buried into a porous medium, Int J Heat Mass Transfer **42**(12) 2187-2198 (Jun 1999), 8A1402
Mass transport in solid tumors - II: Drug delivery, Appl Math Mech **19**(12) 1151-1160 (Dec 1998), 8A1403

Solutions of Luikov equations of heat and mass transfer in capillary porous bodies through matrix calculus: A new approach, Int J Heat Mass Transfer **42**(14) 2649-2660 (Jul 1999), 8A1404
Uniform transpiration effect on coupled heat and mass transfer in mixed convection about a vertical cylinder in porous media: The entire regime, J Chinese Soc Mech Eng **20**(1) 81-86 (Feb 1999), 9A1342
Analytical and numerical study of double-diffusive natural convection in a Brinkman porous layer (French), Int J Heat Mass Transfer **42**(15) 2991-3005 (Aug 1999), 10A1402
Physics of Fluids in Hierarchical Porous Media: Angstroms to Miles (Kluwer, Netherlands, 1997) 11R29
Transport Phenomena in Porous Media (Elsevier Sci BV, Netherlands, 1998) 11N32
Double-diffusive natural convection in a porous medium under constant heat and mass fluxes, Heat Transfer Asian Res **28**(4) 255-265 (1999), 11A1381
Effect of chemical reaction on the dispersion of a solute in a porous medium, Appl Math Model **23**(7) 557-566 (Jul 1999), 11A1466
Controlled-release of fertilizers: Modeling and simulation, Int J Eng Sci **37**(10) 1299-1307 (Aug 1999), 11A1467
Transport in diffusion-substitution systems, Heat and Mass Transfer Warme **35**(1) 49-52 (May 1999), 12A1432
Numerical modeling of the distribution of radionuclides in porous media for strong damage to underground nuclear power station, Int J Heat Mass Transfer **42**(19) 3695-3705 (Oct 1999), 12A1436
Variations of buoyancy-induced mass flux from single-phase to two-phase flow in a vertical porous tube with constant heat flux, J Heat Transfer **121**(3) 646-652 (Aug 1999), 12A1437
Modeling variable density flow and solute transport in porous medium - 1: Numerical model and verification, Transport Porous Media **35**(3) 345-373 (16n 1999), 12A1507
Modeling variable density flow and solute transport in porous medium - 2: Re-evaluation of the salt dome flow problem, Transport Porous Media **35**(3) 375-394 (Jun 1999), 12A1508

414J. Transient effects

Analysis of transient heat-mass transfer and adsorption-desorption interactions, Int J Heat Mass Transfer **42**(5) 803-819 (Mar 1999), 5A1356
Convective instability of a horizontal binary mixture layer with Soret effect under transversal high frequency vibration, Int J Heat Mass Transfer **42**(3) 547-553 (Feb 1999), 5A1357
Unsteady mass transport from a sphere immersed in a porous medium at finite Peclet numbers, Int J Heat Mass Transfer **42**(3) 535-546 (Feb 1999), 5A1358

414Y. Computational techniques

Accuracy and stability of semi-implicit finite difference advection schemes, Commun Numer Methods Eng **14**(7) 647-655 (Jul 1998), 1A1394
Conservative semi-Lagrangian algorithm for 1D advection-diffusion, Commun Numer Methods Eng **14**(7) 671-679 (Jul 1998), 1A1395
Development of a high-resolution scheme for a multidimensional advection-diffusion equation, J Comput Phys **144**(1) 1-16 (Jul 1998), 1T1396
Fractional step method on a special mesh for the resolution of multidimensional evolutionary convection-diffusion problems, Appl Numer Math **27**(3) 211-231 (Jul 1998), 1A1397
Uniform convergence of the Schwarz alternating method for solving singularly perturbed advection-diffusion equations, SIAM J Numer Anal **35**(4) 1663-1683 (May 1998), 1A1398
Application of multiquadric bases in conjunction with the LTDRM method to solve nonlinear diffusion equations, Appl Math Comput **96**(2-3) 161-175 (Nov 1998), 2A1348
Coercive domain decomposition algorithms for advection-diffusion equations and systems, J Comput Appl Math **96**(1) 51-76 (Sep 1998), 2A1349
Eigenvalue translation method for stabilizing an Unsymmetric Lanczos Reduction process, Int J Numer Methods Eng **43**(2) 221-239 (Sep 1998), 2A1350
Note on Hermitian splitting induced relaxation methods for convection-diffusion equations, Numer Methods PDE **14**(5) 581-591 (Sep 1998), 2A1351
Operator splitting algorithm for the 3D advection-diffusion equation, Int J Numer Methods Fluids **28**(3) 461-476 (Sep 1998), 2A1352
Petrov-Galerkin methods for systems of nonlinear reaction-diffusion equations, Appl Math Comput **96**(2-3) 209-236 (Nov 1998), 2A1353
Quasilinearization method in the system of reaction diffusion equations, Appl Math Comput **97**(2-3) 223-235 (Dec 1998), 2A1354
Reduced integration for steady advective-diffusive problems discretized by the SUPG formulation with discontinuity-capturing (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 145-166 (1998), 2A1355
Accurate simulation of transport processes in 2D shear flow, Commun Numer Methods Eng **14**(9) 863-869 (Sep 1998), 3A1355
Analysis of an upwind-mixed FEM for nonlinear contaminant transport equations, SIAM J Numer Anal **35**(5) 1709-1724 (Oct 1998), 3A1356
Effect of contaminant properties and temperature gradients on the efficiency of transient gaseous contaminant removal from an enclosure: A numerical study, Int J Heat Mass Transfer **41**(22) 3589-3609 (Nov 1998), 3A1357
Monte Carlo simulation of coverage in 2D thin-layer electrodeposition, Heat Transfer Japan Res **27**(5) 365-375 (1998), 3A1358
Numerical stability characteristics of a Hermitian Green element model for the transport equation, Eng Anal Boundary Elements **22**(2) 161-165 (Sep 1998), 3A1359
Parallel diagonally iterated RK method for convection-diffusion and stiff problems, Commun Numer Methods Eng **14**(9) 821-837 (Sep 1998), 3A1360
Simple scheme for the FE solution of a pure advection equation, Comput Mech **22**(3) 308-316 (Sep 1998), 3A1361
Uniformly convergent FEMs for singularly perturbed elliptic boundary value problems: Convection-diffusion type, Comput Methods Appl Mech Eng **162**(1-4) 49-78 (Aug 1998), 3A1362
Computational Techniques for Complex Transport Phenomena (Cambridge UP, New York, 1997) 4R30
Bubble stabilization of spectral methods: The multi-dimensional case, J Sci Comput **13**(2) 115-149 (Jun 1998), 4A1420
Family of ELLAM schemes for advection-diffusion-reaction equations and their convergence analyses, Numer Methods PDE **14**(6) 739-780 (Nov 1998), 4A1421
Robustness of an elementwise parallel FEM for convection-diffusion problems, SIAM J Sci Comput **19**(6) 1870-1891 (Nov 1998), 4T1422
Parallel conjugate gradient performance for least-squares FEs and transport problems, Int J Numer Methods Fluids **28**(10) 1421-1440 (Dec 1998), 5A33
Application of the pseudo residual-free bubbles to the stabilization of convection-diffusion problems, Comput Methods Appl Mech Eng **166**(1-2) 51-63 (Nov 1998), 5A1359
Further considerations on residual-free bubbles for advective-diffusive equations, Comput Methods Appl Mech Eng **166**(1-2) 25-33 (Nov 1998), 5A1360
Local discontinuous Galerkin method for time-dependent convection-diffusion systems, SIAM J Numer Anal **35**(6) 2440-2463 (Dec 1998), 5A1361
Modeling arteriolar flow and mass transport using the immersed boundary methods, J Comput Phys **147**(2) 402-440 (Dec 1998), 5T1362
Stability of residual-free bubbles for convection-diffusion problems and their approximation by a two-level FEM, Comput Methods Appl Mech Eng **166**(1-2) 35-49 (Nov 1998), 5A1363
Stochastic diffusion-convection boundary value problems, Chaos Solitons Fractals **9**(12) 1945-1954 (Dec 1998), 5A1364
Streamline-diffusion method for nonconforming FE approximations applied to convection-diffusion problems, Comput Methods Appl Mech Eng **166**(1-2) 85-97 (Nov 1998), 5A1365
Robust and parallel relaxation method based on algebraic splittings, Numer Methods PDE **15**(1) 91-110 (Jan 1999), 6A1418
Upwinding cell-centered method with piecewise constant velocity over covolumes, Numer Methods PDE **15**(1) 49-62 (Jan 1999), 6A1419
Mechanisms of thermo-solutal transport and segregation in high-pressure liquid-encapsulated Czochralski crystal growth, J Heat Transfer **121**(1) 148-159 (Feb 1999), 7A1432
Two-dimensional analysis of mass transport in proton exchange membrane fuel cells, Int J Eng Sci **37**(4) 431-452 (Mar 1999), 7A1440
Particular solution Trefftz method for nonlinear Poisson problems in heat and mass transfer, J Comput Phys **150**(1) 239-267 (Mar 1999), 8A1326
Convergence of a combined finite volume-FEM for nonlinear convection-diffusion problems: Explicit schemes, Numer Methods PDE **15**(2) 215-235 (Mar 1999), 8A1405
Convergence analysis of domain decomposition algorithms with full overlapping for the advection-diffusion problems, Math Comput **68**(226) 585-606 (Apr 1999), 9A1443
Solution of convection-diffusion boundary value problems using equidistributed grids, SIAM J Sci Comput **20**(2) 591-618 (Sep 1998), 9A1444
Solution of time-dependent diffusion equations with variable coefficients using multiwavelets, J Comput Phys **150**(2) 394-424 (Apr 1999), 9T1445
Asymptotic solution of stiff PDEs with the CSP method: The reaction diffusion equation, SIAM J Sci Comput **20**(3) 781-810 (Oct 1998), 10T1401
Adaptive monotonic convection-diffusion flux discretization scheme, Comput Methods Appl Mech Eng **173**(1-2) 201-215 (Apr 1999), 10A1403
Modeling advective-dispersive transport with reaction: An accurate explicit finite difference model, Appl Math Comput **102**(2-3) 101-108 (Jul 1999), 10A1404
Second-order characteristic methods for advection-diffusion equations and comparison to other schemes, Adv Water Resources **22**(7) 741-768 (Apr 1999), 10T1405
Uniform convergence analysis of an upwind finite-difference approximation of a convection-diffusion boundary value problem on an adaptive grid, IMA J Numer Anal **19**(2) 233-249 (Apr 1999), 10A1406
Lagrangian analysis of advection-diffusion equation for a 3D chaotic flow, Phys Fluids **11**(6) 1418-1434 (Jun 1999), 11A148
Combined use of BEM and genetic algorithms in groundwater flow and mass transport problems, Eng Anal Boundary Elements **23**(7) 555-565 (Jul 1999), 11A1468
Modified streamline diffusion schemes for convection-diffusion problems, Comput Methods Appl Mech Eng **174**(1-2) 137-151 (May 1999), 11A1469
New explicit finite difference schemes for 2D diffusion subject to specification of mass, Numer Methods PDE **15**(4) 521-532 (Jul 1999), 11A1470
Three Green element models for the diffusion-advection equation and their stability characteristics, Eng Anal Boundary Elements **23**(7) 577-589 (Jul 1999), 11A1471
General mixed covolume framework for constructing conservative schemes for elliptic problems, Math Comput **68**(227) 991-1011 (Jul 1999), 12A17
High-order finite difference method for unsteady convection-diffusion problems with source term, J Hydrodyn **11**(2) 97-102 (1999), 12A1438
Integral transform solution of convection-diffusion problems within unbounded domain, J Franklin Inst **336**(5) 821-832 (Jul 1999), 12A1439

414Z. Experimental techniques

Heat transfer computations using an anisotropic model (French), Rev Francaise Mec **0**(2) 73-79 (Jun 1998), 1A1399
Heat and mass transfer from internal flows to hemispheres and flat parts in between, Int J Heat Mass Transfer **41**(23) 3705-3718 (Dec 1998), 3A1363
Microscopic study on the solidification of aqueous solutions using laser interferometry, Heat Transfer Japan Res **27**(5) 353-364 (1998), 3A1364
Establishment of a new mass (heat) transfer measurement technique and its validation, Exp Heat Transfer **12**(1) 33-51 (Jan-Mar 1999), 7A1284

416. COMBUSTION

416B. Fundamentals

International research centers' activities in coal combustion, Prog Energy Combust Sci **24**(5) 409-501 (1998), 1A1400
Study of thermodynamic performance of an integrated gasification combined cycle power plant, Proc Inst Mech Eng A **212**(A2) 89-95 (1998), 1A1401
Energy and the environment: Efficient utilization of energy and water resources, Appl Thermal Eng **18**(11) 921-1169 (Nov 1998), 2T1356
Overview of the NASA microgravity combustion program, AIAA J **36**(8) 1337-1345 (Aug 1998), 2A1357
Interactions of fluid oxygen drops in fluid hydrogen at rocket chamber pressures, Int J Heat Mass Transfer **41**(22) 3551-3558 (Nov 1998), 3A1365
Isolated fluid oxygen drop behavior in fluid hydrogen at rocket chamber pressures, Int J Heat Mass Transfer **41**(22) 3537-3550 (Nov 1998), 3A1366
Heat and Mass Transfer Australasia (Begell House, New York, 1998) 4N33
Constitutive model for the non-shock ignition and mechanical response of high explosives, J Mech Phys Solids **46**(12) 2303-2322 (Dec 1998), 5A5
Theory of attached and lifted diffusion flames, Phys Fluids **10**(12) 3145-3154 (Dec 1998), 5A1366
Heat Transfer Division - 1998, Volume 2: Combustion and Radiation Heat Transfer (ASME, New York, 1998) 7N31
Model of turbulent burning velocity taking the preferential diffusion effect into consideration, JSME Int J Ser B **41**(3) 666-673 (Aug 1998), 8T1408
Water flow distribution in horizontal header contaminated with bubbles, Int J Multiphase Flow **25**(5) 827-840 (Aug 1999), 12T1128
Nonlinear equation for curved flames applied to the problem of flames in cylindrical tubes, Phys Fluids **11**(7) 1890-1895 (Jul 1999), 12A1446

416C. Ignition (thermal and heterogeneous)

Review of spray ignition phenomena: Present status and future research, Prog Energy Combust Sci **24**(6) 565-600 (1998), 1A1402
Experimental study on boron-potassium nitrate initiated by shock, J Propulsion Power **14**(4) 416-420 (Jul-Aug 1998), 2A1358
Ignition behaviors of fuel droplets in a hot convective flowfield, Int J Turbo Jet Engines **15**(2) 129-139 (1998), 3A1367
Asymptotic behavior for gaseous ignition models, J Comput Appl Math **97**(1-2) 23-37 (Sep 1998), 4A1423
Reduced chemical kinetic model for knock predictions (Chinese), J Huazhong Univ Sci Tech **26**(7) 39-41 (Jul 1998), 4A1433
Evaluation of ignition improvers for methane autoignition, Combust Sci Tech **135**(1-6) 31-47 (Jun 1998), 5A1367
Ignition and combustion of aluminum particles in H_2-O_2-N_2 combustion products, J Propulsion Power **14**(6) 1001-1008 (Nov-Dec 1998), 5A1368
Ignition and oxidation of tetrahydrofuran: Experiments and kinetic modeling, Combust Sci Tech **135**(1-6) 3-29 (Jun 1998), 5A1369
Turbulence characteristics of tumble flow in a four-valve engine, Exp Thermal Fluid Sci **18**(3) 231-243 (Nov 1998), 5T1418
Shell autoignition model: A new mathematical formulation, Combust Flame **117**(3) 529-540 (May 1999), 7A1441
Spontaneous combustion in coal pillars: Buoyancy and oxygen starvation, Math Eng Industry **7**(3) 283-300 (1999), 7A1442
Effect of catalytic reaction on hot surface ignition, JSME Int J Ser B **41**(4) 945-950 (Nov 1998), 8A1406
Improvement of diesel combustion using a fuel-water-fuel injection system, JSME Int J Ser B **41**(4) 975-982 (Nov 1998), 8T1413
Chemical kinetics and self-ignition in a model supersonic hydrogen-air combustor, AIAA J **37**(2) 208-214 (Feb 1999), 8A1420
Improvement of low load combustion stability for advanced low NO_x burner, JSME Int J Ser B **41**(4) 1071-1078 (Nov 1998), 8T1426
Evaluation of premixed combustion around a bluff body using a combustion model, JSME Int J Ser B **41**(3) 650656 (Aug 1998), 8A1437
Experimental studies of shock-induced ignition and transition to detonation in ethylene and propane mixtures, Combust Flame **117**(4) 861-870 (Jun 1999), 9A1446
Ignition of ethane, propane, and butane in counterflow jets of cold fuel versus hot air under variable pressures, Combust Flame **117**(4) 777-794 (Jun 1999), 9A1447
Transition of ignition between laminar premixed and nonpremixed jets, Combust Flame **117**(4) 871-873 (Jun 1999), 9T1448
Chemistry of pre-ignition of n-pentane and 1-pentene, Combust Flame **118**(1-2) 213-220 (Jul 1999), 10A1407
Ignition and extinction fronts in counterflowing premixed reactive gases, Combust Flame **118**(3) 479-488 (Aug 1999), 11A1472
Ignition of fuel mixtures by standing acoustic waves, Combust Flame **118**(3) 370-380 (Aug 1999), 11A1473
Kinetic modeling of the ignition delays in monomethylhydrazine-hydrogen-oxygen-argon gaseous mixtures, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 393-406 (1998), 11A1474
Weight-function approach for determining watershed initial conditions for combustion waves, IMA J Appl Math **62**(2) 195-206 (Apr 1999), 11A1475
Water flow distribution in horizontal header contaminated with bubbles, Int J Multiphase Flow **25**(5) 827-840 (Aug 1999), 12T1128
Ignition length of laminar combustible pipe flow, Combust Sci Tech **140**(1-6) 451-459 (Nov 1998), 12A1440
Ignition of a combustible stagnant gas layer by a circular hot-spot, Combustion Theory Model **3**(2) 359-369 (Jun 1999), 12A1441

416D. Laminar flame propagation

Measured and predicted properties of laminar premixed methane-air flames at various pressures, Combust Flame **115**(4) 539-550 (Dec 1998), 1A1403
Structure of laminar permanently blue, opposed-jet ethylene-fueled diffusion flames, Combust Flame **115**(4) 468-480 (Dec 1998), 1A1404
Experimental and numerical studies of a triple flame, Combust Flame **116**(1-2) 192-206 (Jan 1999), 2A1359
Properties of laminar premixed hydrocarbon and air flames at various pressures, J Propulsion Power **14**(4) 479-488 (Jul-Aug 1998), 2A1360

Effects of buoyancy on lean premixed v-flames - Part I: Laminar and turbulent flame structures, Combust Flame **116**(3) 360-375 (Feb 1999), 3A1368
Shapes of buoyant and nonbuoyant laminar jet diffusion flames, Combust Flame **116**(3) 376-386 (Feb 1999), 3A1369
Shapes of nonbuoyant round luminous hydrocarbon-air laminar jet diffusion flames, Combust Flame **116**(3) 415-431 (Feb 1999), 3A1370
Threshold phenomenon in the propagation of a point source initiated flame, Physica D **121**(3-4) 295-316 (Oct 1998), 3A1383
Enhanced electric field effect on a flame, J Enhanced Heat Transfer **5**(3) 139-163 (1998), 5A1370
Flash-back of laminar premixed methane-air flames on slit and tube burners, Combust Sci Tech **136**(1-6) 41-54 (Jul 1998), 5A1371
Characterization of impinging jet flames, Combust Flame **116**(4) 671-674 (Mar 1999), 6A1420
Computed structure of low strain rate partially premixed CH$_4$-air counterflow flames: Implications for NO formation, Combust Flame **116**(4) 546-566 (Mar 1999), 6A1421
Simulations of turbulent methane jet diffusion flames with local extinction effects, Fluid Dyn Res **24**(2) 103-119 (Feb 1999), 6A1422
Studies of premixed flame propagation in explosion tubes, Combust Flame **116**(4) 504-518 (Mar 1999), 6A1423
Variation of equivalence ratio and element ratios with distance from burner in premixed 1D flames, Combust Flame **116**(4) 605-614 (Mar 1999), 6A1424
Influence of uncertainties in rate constants on computed burning velocities, Combust Flame **117**(3) 652-656 (May 1999), 7A1443
Numerical studies of reacting flows over flat walls with fuel injection - Part 2: Triple-structure-stabilization of a diffusion flame, JSME Int J Ser B **42**(1) 100-110 (Feb 1999), 8A1119
Analysis and numerical simulation of a nonpremixed flame in a corner, Combust Flame **118**(1-2) 221-232 (Jul 1999), 10A1408
Analysis of the contribution of curvature to premixed flame propagation, Combust Flame **118**(1-2) 308-311 (Jul 1999), 10A1409
Burke-Schumann spray diffusion flame in a nonuniform flow field, Combust Flame **118**(1-2) 13-24 (Jul 1999), 10A1410
Dynamics of weakly stretched flames: Quantitative description and extraction of global flame parameters, Combust Flame **118**(1-2) 108-128 (Jul 1999), 10A1411
Gravity effects on steady 2D partially premixed methane-air flames, Combust Flame **118**(1-2) 91-107 (Jul 1999), 10A1412
Maximal energy accumulation in a superadiabatic filtration combustion wave, Combust Flame **118**(1-2) 76-90 (Jul 1999), 10A1413
Axisymmetric flame spread across propanol pools in normal and zero gravities, Combust Sci Tech **139**(1-6) 249-275 (Oct 1998), 10A1443
Pressure change and transport process on flames formed in a stretched, rotating flow, Combust Flame **118**(3) 431-444 (Aug 1999), 11A1476
Shapes of nonbuoyant round luminous laminar-jet diffusion flames in coflowing air, AIAA J **37**(6) 759-765 (Jun 1999), 11A1477
Acetone fluorescence as a conserved scalar marker in a laminar methane-air diffusion flame, Combust Sci Tech **140**(1-6) 13-28 (Nov 1998), 12A1442
Determination of and fuel structure effects on laminar flame speeds of C$_1$ to C$_8$ hydrocarbons, Combust Sci Tech **140**(1-6) 427-449 (Nov 1998), 12A1443
Effects of buoyancy on steady hydrogen gas-jet diffusion flames, Combust Sci Tech **140**(1-6) 51-68 (Nov 1998), 12A1444
Experimental study of 1 atmosphere, rich, premixed n-heptane and iso-octane flames, Combust Sci Tech **140**(1-6) 69-91 (Nov 1998), 12A1445
Nonlinear equation for curved flames applied to the problem of flames in cylindrical tubes, Phys Fluids **11**(7) 1890-1895 (Jul 1999), 12A1446

416E. Turbulent flame propagation, flammability

Mixing model for turbulent reactive flows based on Euclidean minimum spanning trees, Combust Flame **115**(4) 487-514 (Dec 1998), 1A1405
Premixed turbulent flame instability and NO formation in a lean-burn swirl burner, Combust Flame **115**(4) 515-538 (Dec 1998), 1A1406
Turbulent transport characteristics of non premixed diffusion flames in mutual interaction, J Brazilian Soc Mech Sci **20**(2) 164-178 (Jun 1998), 1A1407
Front tracking method for the motion of premixed flames, J Comput Phys **144**(1) 52-69 (Jul 1998), 1T1420
Evaluation of CH$_4$/NO$_x$ reduced mechanisms used for modeling lean premixed turbulent combustion of natural gas, J Eng Gas Turbines Power **120**(4) 703-712 (Oct 1998), 2A1361
Evaluation of flame surface density models for turbulent premixed jet flames, Combust Flame **116**(1-2) 1-14 (Jan 1999), 2A1362
Highly strained turbulent rich methane flames stabilized by hot combustion products, Combust Flame **116**(1-2) 136-153 (Jan 1999), 2A1363
Measurements of conditional velocities in turbulent premixed flames by simultaneous OH PLIF and PIV, Combust Flame **116**(1-2) 220-232 (Jan 1999), 2A1364
Mechanism of 2D pocket formation in lean premixed methane-air flames with implications to turbulent combustion, Combust Flame **116**(1-2) 15-48 (Jan 1999), 2A1365
Scaling laws of turbulent ceiling fires, Combust Flame **116**(1-2) 84-93 (Jan 1999), 2A1366
Numerical prediction of the dynamic behavior of turbulent diffusion flames, J Eng Gas Turbines Power **120**(4) 713-720 (Oct 1998), 2A1389
Analysis of temperature dissipation in a turbulent jet propane flame, Exp Thermal Fluid Sci **18**(2) 116-121 (Oct 1998), 4A1424
Flame fronts in a turbulent combustion model with fractal velocity fields, Commun Pure Appl Math **51**(11-12) 1337-1348 (Nov-Dec 1998), 4A1425
Study of the premixed turbulent combustion mechanism taking the preferential diffusion effect into consideration, Memoirs Fac Eng Kyushu Univ **58**(2) 55-82 (Jun 1998), 4A1426
Chaotic map models of soot fluctuations in turbulent diffusion flames, Int J Heat Mass Transfer **41**(24) 4095-4112 (Dec 1998), 5A1372
Effect of time of exposure to elevated temperatures on the flammability limits of some common gaseous fuels in air, J Eng Gas Turbines Power **121**(1) 74-79 (Jan 1999), 5A1373
Experimental investigation on the characteristics of turbulent hydrogen jet flames, Combust Sci Tech **136**(1-6) 81-94 (Jul 1998), 5A1374
Measurement system for simultaneous species densities, temperature, and velocity double-pulse measurements in turbulent hydrogen flames, Combust Sci Tech **135**(1-6) 135-152 (Jun 1998), 5A1375
Role of turbulence in detonation induced by Mach stem reflection, Shock Waves **8**(6) 327-336 (Dec 1998), 5T1376
Assessment of combustion submodels for turbulent nonpremixed hydrocarbon flames, Combust Flame **116**(4) 519-545 (Mar 1999), 6A1425
Large-scale turbulent structure of nonpremixed planar jet flames, Combust Flame **116**(4) 615-626 (Mar 1999), 6A1426
Modeling of premixed turbulent flames with second moment methods, Combust Flame **116**(4) 461-485 (Mar 1999), 6A1427
Renormalization group-based transport modeling of premixed turbulent combustion - I: Incompressible deflagration model, J Sci Comput **13**(3) 229-252 (Sep 1998), 6A1428
Numerical simulation of deflagration-to-detonation transition: The role of shock-flame interactions in turbulent flames, Combust Flame **117**(1-2) 323-339 (Apr 1999), 7A279
Differential diffusion in turbulent reacting flows, Combust Flame **117**(3) 493-513 (May 1999), 7A1444
Effect of swirl on lifted flame characteristics in nonpremixed jets, Combust Flame **117**(3) 636-645 (May 1999), 7A1445
Evaluation of combined flame surface density and mixture fraction models for nonisenthalpic premixed turbulent flames, Combust Flame **117**(3) 514-528 (May 1999), 7A1446
Homogeneity level of turbulent stabilized gaseous fuel swirling flames, J Eng Appl Sci **45**(5) 777-789 (Oct 1998), 7A1447
Investigation of modeling for non-premixed turbulent combustion, Flow Turbulence Combust **60**(1) 105-122 (1998), 7T1448
Mass entrainment, momentum flux, and length of buoyant turbulent gas diffusion flames, Combust Flame **117**(3) 589-599 (May 1999), 7A1449
PDF simulations of turbulent combustion incorporating detailed chemistry, Combust Flame **117**(1-2) 340-350 (Apr 1999), 7A1450
Time-accurate scheme for the calculations of unsteady reactive flows at low Mach number, Int J Numer Methods Fluids **29**(2) 207-227 (Jan 1999), 7A1451
New premixed turbulent combustion model for constant volume combustion bomb (Chinese), J Xi'an Jiaotong Univ **33**(1) 10-14 (1999), 7A1489
Subgrid-scale model for the scalar dissipation rate in nonpremixed combustion, Phys Fluids **11**(3) 746-748 (Mar 1999), 8T1198
Flow pattern and heat transfer in tube banks of a simulated fluidized-bed heat exchanger, JSME Int J Ser B **41**(3) 720-726 (Aug 1998), 8T1407
Model of turbulent burning velocity taking the preferential diffusion effect into consideration, JSME Int J Ser B **41**(3) 666-673 (Aug 1998), 8T1408
Structure of opposed jet turbulent premixed flames, JSME Int J Ser B **42**(1) 91-99 (Feb 1999), 8A1409
Effects of the Lewis number and radiative heat loss on the bifurcation and extinction of CH$_4$/O$_2$-N$_2$-He flames, J Fluid Mech **379** 165-190 (Jan 1999), 8A1423
Field Monte Carlo formulation for calculating the probability density function of a single scalar in a turbulent flow, Flow Turbulence Combust **60**(2) 157-172 (1998), 9T1233
Comparison of mixing model performance for nonpremixed turbulent reactive flow, Combust Flame **117**(4) 732-754 (Jun 1999), 9A1449
Topology of turbulent premixed flame fronts resolved by simultaneous planar imaging of LIPF of OH radical and Rayleigh scattering, Exp Fluids **26**(4) 277-287 (Mar 1999), 9A1450
Examining the cascade hypothesis for turbulent premixed combustion, Combust Sci Tech **139**(1-6) 15-40 (Oct 1998), 10A1414
Experimental study of premixed turbulent combustion in opposed streams - Part III: Spatial structure of flames, Combust Flame **118**(1-2) 129-139 (Jul 1999), 10A1415
Flame propagation along a nonpremixed vortex ring, Combust Sci Tech **139**(1-6) 277-292 (Oct 1998), 10A1416
Renormalization group-based transport modeling of premixed turbulent combustion - II: Finite density gradient and direct heat release, J Sci Comput **13**(4) 369-404 (Dec 1998), 10A1417
Turbulent jet diffusion flames: Consolidation of flame height data, Combust Flame **118**(1-2) 51-60 (Jul 1999), 10A1418
Visual investigation of a vortex ring interacting with a nonpremixed flame, Combust Sci Tech **139**(1-6) 365-383 (Oct 1998), 10A1419
Turbulent burning velocity for large-scale and small-scale turbulence, J Fluid Mech **384** 107-132 (Apr 1999), 11A1259
Mixing model for the calculation of extinction in oscillating flames, AIAA J **37**(6) 751-758 (Jun 1999), 11A1478
Numerical simulation and experimental validation of the turbulent combustion and perlite expansion processes in an industrial perlite expansion furnace, Flow Turbulence Combust **60**(3) 283-300 (1998), 11T1479
Numerical simulation of dust explosions in pneumatic conveyors, Shock Waves **9**(2) 125-139 (Apr 1999), 12T1447
Turbulence statistics and scalar transport in highly-sheared premixed flames, Flow Turbulence Combust **60**(4) 361-376 (1998), 12A1448

416F. Flame stability and stabilization

Chemical limits to flame inhibition, Combust Flame **115**(4) 551-560 (Dec 1998), 1A1408
Effects due to shear flow on the diffusive-thermal instability of premixed gas flames, Quart Appl Math **56**(3) 401-412 (Sep 1998), 1A1409
Application of active combustion instability control to a heavy duty gas turbine, J Eng Gas Turbines Power **120**(4) 721-726 (Oct 1998), 2A1367
Suppression of flame wrinkling by buoyancy: The baroclinic stabilization mechanism, AIAA J **36**(8) 1432-1438 (Aug 1998), 2A1368
Two-dimensional modeling for catalytically stabilized combustion of a lean methane-air mixture with elementary homogeneous and heterogeneous chemical reactions, Combust Flame **116**(1-2) 243-258 (Jan 1999), 2A1369
Effects of periodic atomization on combustion instability in liquid-fueled propulsion systems, J Propulsion Power **14**(5) 818-825 (Sep-Oct 1998), 3A1371
Stabilization of the hydrodynamic flame instability by a weak shock, Phys Fluids **10**(10) 2669-2675 (Oct 1998), 4T1427
Theory of attached and lifted diffusion flames, Phys Fluids **10**(12) 3145-3154 (Dec 1998), 5A1366
Diffusion flame stabilized on a porous plate in a parallel airstream, AIAA J **36**(11) 1945-1952 (Nov 1998), 5A1377
Laser imaging in the stabilization region of turbulent lifted flames, Combust Sci Tech **135**(1-6) 117-134 (Jun 1998), 5A1378
Experimental investigation of blow-out limits for hydrogen-diluent diffusion flames, Combust Flame **117**(1-2) 438-440 (Apr 1999), 7A1452
Instability-induced extinction of diffusion flames established in the stagnant mixing layer, Combust Flame **117**(1-2) 404-412 (Apr 1999), 7A1453
Local stability of multiple solutions and oscillatory dynamics of spatially distributed flames, Combust Flame **117**(1-2) 307-322 (Apr 1999), 7A1454
Role of Landau-Darrieus instability in large scale flows, Combust Flame **117**(1-2) 155-169 (Apr 1999), 7A1455
Active control of combustion instability in a liquid-fueled low-NO$_x$ combustor, J Eng Gas Turbines Power **121**(2) 281-284 (Apr 1999), 8A1410
Combustion instability in a combustion chamber with a slit V-Gutter, J Chinese Soc Mech Eng **20**(1) 59-65 (Feb 1999), 9A1451
Gravity effects on stability and flickering motion of diffusion flames, Combust Flame **118**(1-2) 293-300 (Jul 1999), 10A1420
Coupled KS-CGL and coupled Burgers-CGL equations for flames governed by a sequential reaction, Physica D **129**(3-4) 253-298 (May 1999), 11A1480
Effects of a recess on cryogenic flame stabilization, Combust Flame **118**(3) 327-339 (Aug 1999), 11A1481
Primary acoustic instability of flames propagating in tubes: Cases of spray and premixed gas combustion, J Fluid Mech **385** 157-197 (Apr 1999), 11A1482
Unsteady-state simulation of model ram accelerator in expansion tube, AIAA J **37**(5) 537-543 (May 1999), 11A1483
Adaptive control of combustion instability with on-line system identification, J Propulsion Power **15**(3) 383-389 (May-Jun 1999), 12A1449

416G. Combustion products, exhaust emissions

Heat transfer gallery, J Heat Transfer **120**(3) 538-546 (Aug 1998), 1A1278
Computer-controlled scanning electron microscopy of minerals in coal: Implications for ash deposition, Prog Energy Combust Sci **24**(6) 523-543 (1998), 1A1410
NO$_x$ control through reburning, Prog Energy Combust Sci **24**(5) 385-408 (1998), 1A1411
Numerical methodology to predict exhaust plumes of propulsion nozzles, J Fluids Eng **120**(3) 563-569 (Sep 1998), 1A1412
Strength development at low temperatures in coal ash deposits, Prog Energy Combust Sci **24**(6) 513-521 (1998), 1A1413
Can soot primary particle size be determined using laser-induced fluorescence, Combust Flame **116**(1-2) 291-296 (Jan 1999), 2A1370
Large molecules, radicals, ions, and small soot particles in fuel-rich hydrocarbon flames - Part I: Positive ions of polycyclic aromatic hydrocarbons in low-pressure premixed flames of acetylene and oxygen, Combust Flame **116**(1-2) 62-83 (Jan 1999), 2A1371
Morphology of chromium emissions from a laminar hydrogen diffusion flame, Combust Flame **116**(1-2) 233-242 (Jan 1999), 2A1372
Structure and soot properties of nonbuoyant ethylene-air laminar jet diffusion flames, AIAA J **36**(8) 1346-1360 (Aug 1998), 2A1399
Positive solutions and dynamics of some reaction diffusion models in HIV transmission, Nonlinear Anal **35**(3) 323-341 (Feb 1999), 3T1350
Compact particulate dilution tunnel for the characterization of diesel exhaust, Proc Inst Mech Eng D **212**(D4) 299-310 (1998), 3A1372
Fuel preheat effects on soot-field structure in laminar gas jet diffusion flames burning in 0-g and 1-g, Combust Flame **116**(3) 334-347 (Feb 1999), 3A1373
Modeling and analysis of variable geometry exhaust gas systems, Appl Math Model **22**(8) 545-567 (Aug 1998), 3A1374
Combustion analysis and cycle-by-cycle variations in spark ignition engine combustion - Part 1: An evaluation of combustion analysis routines by reference to model data, Proc Inst Mech Eng D **212**(D5) 381-399 (1998), 4A1428
New concept for reducing diesel exhaust emissions: Exhaust gas recirculation within the spray, J Shanghai Jiaotong Univ-Special Issue **E3**(1) 89-92 (Jun 1998), 4A1429
Prediction of the effect of injection parameters on NO$_x$ emission and burning quality in the direct injection diesel engine using a modified multizone model, Proc Inst Mech Eng D **212**(D5) 427-436 (1998), 4A1430
Improved performance rhenium containing single crystal alloy turbine blades utilizing PPM levels of the highly reactive elements lanthanum and yttrium, J Eng Gas Turbines Power **121**(1) 138-143 (Jan 1999), 5A678
Enhanced electric field effect on a flame, J Enhanced Heat Transfer **5**(3) 139-163 (1998), 5A1370
Agglomeration and fouling in petroleum coke-fired FBC boilers, J Energy Resources Tech **120**(4) 285-292 (Dec 1998), 5A1379
Co-pyrolysis of coal-biomass and coal-sewage sludge mixtures, J Eng Gas Turbines Power **121**(1) 55-63 (Jan 1999), 5A1380
Effect of air extraction for cooling and/or gasification on combustor flow uniformity, J Eng Gas Turbines Power **121**(1) 46-54 (Jan 1999), 5A1381
Modeling of combustion characteristics and NO$_x$ emission in highly pretreated and diluted air combustion, Int J Energy Res **22**(14) 1217-1234 (Nov 1998), 5A1382
Study of catalytic reduction of NO$_x$ in exhaust gas from a diesel engine, Exp Thermal Fluid Sci **18**(3) 220-230 (Nov 1998), 5T1383
Zero-emission MATIANT cycle, J Eng Gas Turbines Power **121**(1) 116-120 (Jan 1999), 5A1384
Numerical analysis of the emissions characteristics of biodiesel blended fuels, J Eng Gas Turbines Power **121**(1) 31-37 (Jan 1999), 5A1417
Combustion analysis and cycle-by-cycle variations in spark ignition engine combustion - Part 2: A new parameter for completeness of combustion and its use in modeling cycle-by-cycle variations in combustion, Proc Inst Mech Eng D **212**(D6) 507-523 (1998), 6A1429

Control of soot emission of a turbulent diffusion flame by DC or AC corona discharges, Combust Flame **116**(4) 653-661 (Mar 1999), 6A1430
Effects of exhaust gas recirculation temperature on diesel engine combustion and emissions, Proc Inst Mech Eng D **212**(D6) 479-500 (1998), 6A1431
Investigation into hydrocarbon emissions from crevice and oil film during cold start and idling periods in a spark ignition engine, Proc Inst Mech Eng D **212**(D6) 501-505 (1998), 6A1432
Local mixture injection to extend the lean limit of spark-ignition engines, Exp Fluids **26**(1-2) 126-135 (Jan 1999), 6A1433
Modeling the effects of combustion and turbulence on near-wall temperature gradients in the cylinders of spark ignition engines, Proc Inst Mech Eng D **212**(D6) 533-546 (1998), 6A1434
Predictions of soot and thermal radiation properties in confined turbulent jet diffusion flames, Combust Flame **116**(4) 486-503 (Mar 1999), 6A1435
Study of pollutant emission characteristics of partially premixed turbulent jet flames, Combust Flame **116**(4) 627-639 (Mar 1999), 6A1436
Study to investigate the capability of adsorbents for reduction of cold-start emissions, Proc Inst Mech Eng D **212**(D6) 525-532 (1998), 6A1437
Computational and experimental study of soot formation in a coflow, laminar diffusion flame, Combust Flame **117**(1-2) 117-139 (Apr 1999), 7A1456
Detailed analysis of low pressure premixed flames of $CH_4 + O_2 + N_2$: A study of prompt-NO, Combust Flame **117**(1-2) 291-306 (Apr 1999), 7A1457
Heterogeneous formation of nitrous oxide from char-bound nitrogen, Combust Flame **117**(1-2) 140-154 (Apr 1999), 7A1458
Nitric oxide formation in dilute hydrogen jet flames: Isolation of the effects of radiation and turbulence-chemistry submodels, Combust Flame **117**(1-2) 4-31 (Apr 1999), 7A1459
Rate-ratio asymptotic analysis of methane-air diffusion-flame structure for predicting production of oxides of nitrogen, Combust Flame **117**(3) 441-476 (May 1999), 7A1460
Simplified fuel-NO_x model based on regression analysis, Int J Energy Res **23**(2) 157-168 (Feb 1999), 7A1461
Soot formation in cracked flames, Combust Flame **117**(1-2) 435-437 (Apr 1999), 7A1462
Split ratio control in mini-dilution tunnels for measurement of steady-state and transient emissions from heavy duty diesel engines, Heavy Vehicle Syst **5**(3-4) 379-398 (1998), 7T1463
Uncertainty in real-world particulate matter emission measurements from a transportable heavy-duty vehicle emissions testing laboratory, Heavy Vehicle Syst **5**(3-4) 399-420 (1998), 7T1464
Structure of opposed jet turbulent premixed flames, JSME Int J Ser B **42**(1) 91-99 (Feb 1999), 8A1409
Effects of thermal barrier coatings on diesel engine emissions, J Eng Gas Turbines Power **121**(2) 218-225 (Apr 1999), 8A1411
High temperature air combustion-revolution in combustion technology - Part I: New findings on high temperature air combustion, JSME Int J Ser B **41**(4) 1079-1084 (Nov 1998), 8A1412
Improvement of diesel combustion using a fuel-water-fuel injection system, JSME Int J Ser B **41**(4) 975-982 (Nov 1998), 8T1413
NO destruction and regeneration in CO_2 enriched CH_4 flame: Fundamental study on CO_2 recycled coal combustion, JSME Int J Ser B **41**(4) 959-965 (Nov 1998), 8T1414
Realization of EGR for a turbocharged diesel engine, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 1-5 (Dec 1998), 8A1415
Shift reactors and physical absorption for low-CO_2 emission IGCCs, J Eng Gas Turbines Power **121**(2) 295-305 (Apr 1999), 8A1416
Simultaneous reduction of NO_x and soot in diesel engines using a new mixture preparation method, JSME Int J Ser B **40**(4) 592-598 (Nov 1997), 8T1417
Catalytic control of automotive NO_x: A review, Int J Energy Res **23**(4) 351-369 (Mar 1999), 9A1452
Intermediate species profiles in low pressure premixed flames inhibited by fluoromethanes, Combust Flame **117**(4) 709-731 (Jun 1999), 9A1453
Simulation of soot aggregates formed by benzene pyrolysis, Combust Flame **117**(4) 851-860 (Jun 1999), 9A1454
Development of a lean premixed low-swirl burner for low NO_x practical applications, Combust Sci Tech **139**(1-6) 207-227 (Oct 1998), 10A1421
Experimental and detailed kinetic modeling of nitric oxide reduction by a natural gas blend in simulated reburning conditions, Combust Sci Tech **139**(1-6) 329-363 (Oct 1998), 10A1422
Mapping of luminescent species in a flame front, Combust Sci Tech **139**(1-6) 1-13 (Oct 1998), 10A1423
Modeling nitric oxide formation in a drop tube furnace burning pulverized coal, Combust Flame **118**(1-2) 61-75 (Jul 1999), 10A1424
Reduction of nitric oxide in diesel exhaust with the addition of methylamine, J Eng Gas Turbines Power **121**(3) 563-568 (Jul 1999), 10A1425
Superequilibrium O concentrations and prompt NO formation in laminar premixed methane-air flames, Combust Sci Tech **139**(1-6) 159-171 (Oct 1998), 10A1426
Volatile organic compounds and particulates as components of diesel engine exhaust gas, Combust Flame **118**(1-2) 179-190 (Jul 1999), 10A1427
Formation of polycyclic aromatic hydrocarbons in an atmospheric pressure ethylene diffusion flame, Combust Flame **118**(3) 500-507 (Aug 1999), 11A1484
Mechanisms for the formation of exhaust hydrocarbons in a single cylinder spark-ignition engine, fueled with deuterium-labeled *ortho*-, *meta*- and *para*-xylene, Combust Flame **118**(3) 459-468 (Aug 1999), 11A1485
NO_x formation in two-stage methane-air flames, Combust Flame **118**(3) 399-414 (Aug 1999), 11A1486
Soot measurements in a simulated engine exhaust using laser-induced incandescence, AIAA J **37**(6) 738-743 (Jun 1999), 11A1499
Cycle-by-cycle modeling of NO formation and comparison with experimental data, Proc Inst Mech Eng D **213**(D2) 175-189 (1999), 12A1450
Design of scrubbers for condensing boilers, Prog Energy Combust Sci **25**(3) 305-337 (1999), 12A1451
Effect of overall equivalence ratio of minimum nitric oxide emission index in laminar and turbulent partially premixed flames, Combust Sci Tech **140**(1-6) 461-468 (Nov 1998), 12A1452
Estimation of hydrocarbon oxidation by measuring HC concentrations in an SI engine exhaust port, Combust Sci Tech **140**(1-6) 351-367 (Nov 1998), 12A1453
Impact of alternative controller strategies on exhaust emissions from an integrated diesel-continuously variable transmission powertrain, Proc Inst Mech Eng D **213**(D2) 95-107 (1999), 12A1454
Influence of ferrocene on PAH synthesis in acetylene and methane diffusion flames, Combust Sci Tech **140**(1-6) 333-350 (Nov 1998), 12A1455
Magnetic field enhanced plasma reactor for pollutant gases control by corona discharge, Combust Sci Tech **140**(1-6) 1-11 (Nov 1998), 12A1456
Quantitative measurements of absolute concentrations of intermediate species in flames, Prog Energy Combust Sci **25**(3) 233-252 (1999), 12A1457
Reduction in polycyclic aromatic hydrocarbon emission and air pollution by using a methanol-containing additive in a gasoline-powered engine, Proc Inst Mech Eng D **213**(D2) 191-199 (1999), 12A1458
Soot volume fraction measurements in the soot-forming regions of ethylene-air turbulent partially-premixed flames, Combust Sci Tech **140**(1-6) 29-49 (Nov 1998), 12A1459
Variable geometry turbocharging for lower emissions and improved torque characteristics, Proc Inst Mech Eng D **213**(D2) 145-159 (1999), 12A1460

416H. Interaction of flames and surfaces

Diffusion flame attachment near cold surfaces, Combust Flame **117**(1-2) 384-393 (Apr 1999), 7A1465
Modeling of filtration combustion in a packed bed, Combust Flame **117**(4) 832-840 (Jun 1999), 9A1455

416I. Kinetics and mechanisms

Analysis of temperature dissipation in a turbulent jet propane flame, Exp Thermal Fluid Sci **18**(2) 116-121 (Oct 1998), 4A1424
Heats of formation of HNO and some related species, Combust Flame **117**(1-2) 394-403 (Apr 1999), 7A1466
Kinetic model for the decomposition of DMMP in a hydrogen-oxygen flame, Combust Flame **117**(1-2) 78-98 (Apr 1999), 7A1467
Kinetics modeling of shock-induced ignition in low-dilution CH_4-O_2 mixtures at high pressures and intermediate temperatures, Combust Flame **117**(1-2) 272-290 (Apr 1999), 7A1468
Viscous shock-layer simulation of airflow past ablating blunt body with carbon surface, J Thermophys Heat Transfer **13**(1) 50-59 (Jan-Mar 1999), 7A1469
Effects of the Lewis number and radiative heat loss on the bifurcation and extinction of CH_4/O_2-N_2-He flames, J Fluid Mech **379** 165-190 (Jan 1999), 8A1423
Reactions of sodium species in the promoted SNCR process, Combust Flame **117**(4) 821-831 (Jun 1999), 9A1456
Research on kinetics of limestone desulphurization reactions under a reducing atmosphere, Int J Energy Res **23**(3) 207-215 (Mar 1999), 9A1457
Competition between hydrogen abstraction versus C-O bond fission in initiating dimethyl ether combustion, Combust Flame **118**(1-2) 312-316 (Jul 1999), 10A1428
Implementing multi-step chemical kinetics models in opposed-flow flame spread over cellulose and a comparison to single-step chemistry, Combust Flame **118**(1-2) 281-292 (Jul 1999), 10A1429
Kinetic modeling of a rich, atmospheric pressure, premixed n-heptane-O_2-N_2 flame, Combust Flame **118**(3) 381-398 (Aug 1999), 11A1487
Oxidation of 1,3-butadiene: Experimental results and kinetic modeling, Combust Sci Tech **140**(1-6) 225-257 (Nov 1998), 12A1461

416J. Unsteady combustion and combustion acoustics

Transport enhancement in acoustically excited cavity flows - Part 2: Reactive flow diagnostics, AIAA J **36**(9) 1568-1574 (Sep 1998), 2A452
Prediction method of unsteady combustion around hypersonic projectile in stoichiometric hydrogen-air, AIAA J **36**(10) 1834-1841 (Oct 1998), 3A1375
Acoustic effects during the combustion of gaseous fuels in a bubbling fluidized bed, Combust Flame **117**(3) 629-635 (May 1999), 7A1470
Oscillatory behavior of laminar spray diffusion flames: Experiment and theory, Combust Flame **117**(1-2) 373-383 (Apr 1999), 7A1471
Contribution to the analysis of turbulence anisotropy and nonhomogeneity in an open-chamber diesel engine, J Eng Gas Turbines Power **121**(2) 226-234 (Apr 1999), 8A1418
Control of flame oscillations with equivalence ratio modulation, J Propulsion Power **15**(2) 232-240 (Mar-Apr 1999), 8A1419
Boundary-layer structure in cylindrical rocket motors, AIAA J **37**(4) 505-508 (Apr 1999), 9T1458
Sound emission of ducted premixed flames, J Sound Vib **221**(2) 221-234 (Mar 1999), 9A1459
Acoustic sensitivities of lean-premixed fuel injectors in a single nozzle rig, J Eng Gas Turbines Power **121**(3) 429-436 (Jul 1999), 10A1430
Chemical response of methane-air diffusion flames to unsteady strain rate, Combust Flame **118**(1-2) 204-212 (Jul 1999), 10A1431
Nonlinear heat-release and acoustic model for thermoacoustic instability in lean premixed combustors, J Eng Gas Turbines Power **121**(3) 415-421 (Jul 1999), 10A1432
Propagation of unsteady tribrachial flames in laminar non-premixed jets, Combust Flame **118**(1-2) 151-163 (Jul 1999), 10A1433
Effect of unsteady stretch on spark-ignited flame kernel survival, Combust Flame **118**(3) 469-478 (Aug 1999), 11A1488

416K. Supersonic combustion

Flame-holding configurations for kerosene combustion in a Mach 1.8 airflow, J Propulsion Power **14**(4) 456-461 (Jul-Aug 1998), 2A1373
Implicit multigrid method for the simulation of chemically reacting flows, J Comput Phys **146**(1) 322-345 (Oct 1998), 3T1077
Displacement effects and scaling of ducted, supersonic flames, Combust Flame **116**(4) 593-604 (Mar 1999), 6A1438
Interaction of a shock with a sinusoidally perturbed flame, Combust Flame **117**(1-2) 99-116 (Apr 1999), 7A1472
Chemical kinetics and self-ignition in a model supersonic hydrogen-air combustor, AIAA J **37**(2) 208-214 (Feb 1999), 8A1420
Evaluation of supersonic turbulent mixing using catalytic combustion of constant temperature Pt wire, JSME Int J Ser B **42**(1) 65-70 (Feb 1999), 8T1421
High Speed Propulsion (VKI Fluid Dyn, Rhode-St-Genese, Belgium, 1998) 11N30
Shock-tube and modeling study of methane pyrolysis and oxidation, Combust Flame **118**(3) 340-358 (Aug 1999), 11A1489

416L. Heterogeneous and multiphase combustion

Role of turbulence in detonation induced by Mach stem reflection, Shock Waves **8**(6) 327-336 (Dec 1998), 5T1376
Non-planar smoulder propagation governed by diffusion, IMA J Appl Math **61**(2) 105-117 (Oct 1998), 6A1439
Dynamics and structure of dusty reacting flows: Inert particles in strained, laminar, premixed flames, Combust Flame **117**(1-2) 206-226 (Apr 1999), 7A1473
Effect of catalytic reaction on hot surface ignition, JSME Int J Ser B **41**(4) 945-950 (Nov 1998), 8A1406
LDA flow rate measurements applied for analysis of transient injection characteristics, JSME Int J Ser B **42**(1) 22-29 (Feb 1999), 8T1422

416M. Flame radiation

Measurements of soot production and thermal radiation from confined turbulent jet diffusion flames of methane, Combust Flame **116**(1-2) 49-61 (Jan 1999), 2A1374
Structure and soot properties of nonbuoyant ethylene-air laminar jet diffusion flames, AIAA J **36**(8) 1346-1360 (Aug 1998), 2A1399
Experimental and numerical study of flame ball IR and UV emissions, Combust Flame **116**(3) 348-359 (Feb 1999), 3A1376
Combined effects of radiation, flame curvature, and stretch on the extinction and bifurcations of cylindrical CH_4-air premixed flame, Combust Flame **116**(4) 580-592 (Mar 1999), 6A1440
Effects of the Lewis number and radiative heat loss on the bifurcation and extinction of CH_4/O_2-N_2-He flames, J Fluid Mech **379** 165-190 (Jan 1999), 8A1423
Influence of barriers on flame transmission and explosion wave in gas explosion (Chinese), J China Univ Mining Tech **28**(2) 104-107 (1999), 9A1460

416N. Furnaces

Furnace water-wall slag deposition testing in a $0.5MW_t$ combustion pilot plant, Prog Energy Combust Sci **24**(6) 503-511 (1998), 1A1414

416O. Combustors and afterburners

Development of a combustion system for a 110 MW CAES plant, J Eng Gas Turbines Power **120**(4) 875-883 (Oct 1998), 2A1313
Combustion and heat transfer in model 2D porous burners, Combust Flame **116**(1-2) 177-191 (Jan 1999), 2A1375
Measurement of mass transfer between the bubble and dense phases in a fluidized bed combustor, Combust Flame **116**(1-2) 105-119 (Jan 1999), 2A1376
Solid fuel ramjet combustor design, Prog Aerospace Sci **34**(3-4) 219-256 (Mar-Apr 1998), 2A1377
Investigation of a solid fuel scramjet combustor, J Propulsion Power **14**(4) 447-455 (Jul-Aug 1998), 2A1413
Effect of dump gap on velocity distribution and flow split in a prototype reverse-flow gas turbine combustor, Int J Turbo Jet Engines **15**(2) 141-154 (1998), 3A1377
Research as a key in the design methodology of liquid-propellant combustion devices, J Propulsion Power **14**(5) 782-788 (Sep-Oct 1998), 3A1378
Fuel-air mixing in solid fuel scramjet combustors, Int J Turbo Jet Engines **15**(3) 223-234 (1998), 4A1431
CFD modeling of a gas turbine combustor from compressor exit to turbine inlet, J Eng Gas Turbines Power **121**(1) 89-95 (Jan 1999), 5A1385
Development of a combustor liner composed of ceramic matrix composite, J Eng Gas Turbines Power **121**(1) 12-17 (Jan 1999), 5A1386
Effects of unmixedness in piloted-lean premixed gas-turbine combustors, J Propulsion Power **14**(6) 967-973 (Nov-Dec 1998), 5A1387
Quantifying unmixedness in lean premixed combustors operating at high-pressure, fired conditions, J Propulsion Power **14**(6) 974-980 (Nov-Dec 1998), 5A1388
Role of unmixedness and chemical kinetics in driving combustion instabilities in lean premixed combustors, Combust Sci Tech **135**(1-6) 193-211 (Jun 1998), 5A1389
Numerical computation of a circulating fluidized bed combustor, Int J Energy Res **22**(15) 1351-1364 (Dec 1998), 5A1451
Experimental study of the inhibiting effect of chlorine in a fluidized bed combustor, Combust Flame **116**(4) 640-652 (Mar 1999), 6A1441
Heat transfer characteristics of a rotary regenerative combustion system (RRX), Heat Transfer Japan Res **27**(8) 584-596 (1998), 6A1442
Application of flamelet profiles to flame structure in practical burners, J Energy Resources Tech **121**(1) 66-72 (Mar 1999), 7A1474
Carbon attrition during the circulating fluidized bed combustion of a packaging-derived fuel, Combust Flame **117**(3) 562-573 (May 1999), 7A1475
High temperature air combustion-revolution in combustion technology - Part I: New findings on high temperature air combustion, JSME Int J Ser B **41**(4) 1079-1084 (Nov 1998), 8A1412
NO destruction and regeneration in CO_2 enriched CH_4 flame: Fundamental study on CO_2 recycled coal combustion, JSME Int J Ser B **41**(4) 959-965 (Nov 1998), 8T1414
Realization of EGR for a turbocharged diesel engine, J Shanghai Jiaotong Univ-Special Issue **E3**(2) 1-5 (Dec 1998), 8A1415
Assessment of combustion modes for internal combustion wave rotors, J Eng Gas Turbines Power **121**(2) 265-271 (Apr 1999), 8A1424

Fuel effects on lean blowout and emissions from a well-stirred reactor, J Propulsion Power **15**(2) 216-223 (Mar-Apr 1999), 8A1425
Improvement of low load combustion stability for advanced low NO$_x$ burner, JSME Int J Ser B **41**(4) 1071-1078 (Nov 1998), 8T1426
Mixing zone optimization of a rich-burn-quick-mix and lean-burn combustion, J Propulsion Power **15**(2) 288-295 (Mar-Apr 1999), 8A1427
Performance of a burner with coal and coal-biosolid fuel blends, J Propulsion Power **15**(2) 181-186 (Mar-Apr 1999), 8A1428
Study on the swirling flow field in the freeboard of a vortexing fluidized bed combustor, JSME Int J Ser B **41**(3) 538-545 (Aug 1998), 8A1429
Visualization and measurements of sub-millisecond transient spray dynamics applicable to direct injection gasoline engine - Part 1: Visualization of spray using high speed video camera and laser sheet technique, JSME Int J Ser B **41**(4) 983-990 (Nov 1998), 8T1430
Effects of spray characteristics on combustion performance of a liquid fuel spray in a gas turbine combustor, Int J Energy Res **23**(3) 217-228 (Mar 1999), 9A1465
Relative importance of radicals on the N$_2$O and NO formation and destruction paths in a quartz CFBC, J Energy Resources Tech **121**(2) 131-136 (Jun 1999), 9A1484
Catalytic burner using propane and toluene alternately for the drying of textile coatings, Int J Energy Res **23**(6) 543-556 (May 1999), 10A1434
High pressure test results of catalytically assisted ceramic combustor for a gas turbine, J Eng Gas Turbines Power **121**(3) 422-428 (Jul 1999), 10A1435
Liquid fueled, lean burn, gas turbine combustor injector, Combust Sci Tech **139**(1-6) 41-57 (Oct 1998), 10A1436
Modeling and experimental study of operation process in a gas turbine combustor with a plasma-chemical element, Combust Sci Tech **139**(1-6) 137-158 (Oct 1998), 10A1437
LDA-PDA measurements of instantaneous characteristics in high pressure fuel injection and swirl spray, Exp Fluids **27**(1) 1-11 (Jun 1999), 12A1131
Turbulence statistics and scalar transport in highly-sheared premixed flames, Flow Turbulence Combust **60**(4) 361-376 (1998), 12A1448
Combustion-chamber crevices: The major source of engine-out hydrocarbon emissions under fully warmed conditions, Prog Energy Combust Sci **25**(3) 253-273 (1999), 12A1462
Performance evaluation of scramjet combustors using kinetic energy and combustion efficiencies, J Propulsion Power **15**(3) 401-407 (May-Jun 1999), 12A1463

416P. Solid fuels

Energy from municipal solid waste: A comparison with coal combustion technology, Prog Energy Combust Sci **24**(6) 545-564 (1998), 1A1415
Condensed-phase chemical interaction between ammonium perchlorate and hydroxy-terminated polybutadiene, J Propulsion Power **14**(4) 575-576 (Jul-Aug 1998), 2A1378
Effect of finite deformations of combustible porous media on dynamical processes of internal heat-mass transfer, Int J Eng Sci **36**(11) 1215-1233 (Sep 1998), 2A1379
Heat capacity and thermal conductivity considerations for coal particles during the early stages of rapid heating, Combust Flame **116**(1-2) 94-104 (Jan 1999), 2A1380
Measurement system for determining solid propellant burning rate using transmission microwave interferometry, J Propulsion Power **14**(4) 421-428 (Jul-Aug 1998), 2A1381
Propulsion Combustion: Fuels to Emissions (Taylor & Francis, Washington DC, 1998) 3N28
Experimental study of aluminum particle flame evolution in normal and micro-gravity, Combust Flame **116**(3) 323-333 (Feb 1999), 3A1379
Propellant technologies: Far-reaching benefits for aeronautical and space-vehicle propulsion, J Propulsion Power **14**(5) 641-648 (Sep-Oct 1998), 3A1398
Challenges in Propellants and Combustion: 100 Years After Nobel (Begell House, New York, 1997) 4N32
Possible chemical mechanisms for boron hydride acceleration of nitramine decomposition: Literature review, J Propulsion Power **14**(6) 981-990 (Nov-Dec 1998), 5A1390
Overlapping of the devolatilization and char combustion stages in the burning of coal particles, Combust Flame **116**(4) 567-579 (Mar 1999), 6A1443
Percolative fragmentation and spontaneous agglomeration, Combust Flame **116**(4) 662-670 (Mar 1999), 6A1444
Sewage sludge combustion, Prog Energy Combust Sci **25**(1) 55-116 (1999), 6A1445
Boron particle ignition and combustion at 30-150 ATM, Combust Flame **117**(1-2) 32-58 (Apr 1999), 7A1476
Combustion of ammonium dinitramide, Combust Flame **117**(1-2) 429-434 (Apr 1999), 7A1477
Elementary discussion of propellant flame geometry, Combust Flame **117**(3) 541-552 (May 1999), 7A1478
Multi-phase model for ignition and combustion of boron particles, Combust Flame **117**(1-2) 227-243 (Apr 1999), 7A1479
Study of the chemical and physical processes governing CO$_2$ laser-induced pyrolysis and combustion of RDX, Combust Flame **117**(3) 600-628 (May 1999), 7A1480
Interaction of counterpropagating hot spots in solid fuel combustion, Physica D **128**(1) 18-40 (Apr 1999), 9A1461
Mechanism of asymmetric aluminum particle combustion, Combust Flame **117**(4) 841-850 (Jun 1999), 9A1462
Thermal decomposition of RDX-BAMO pseudo-propellants, Combust Flame **117**(4) 795-809 (Jun 1999), 9A1463
Combustion mechanism of an RDX-based composite propellant, Combust Flame **118**(1-2) 248-261 (Jul 1999), 10A1438
Constant pressure combustion of aerosol of course magnesium particles in microgravity, Combust Flame **118**(1-2) 262-280 (Jul 1999), 10A1439
Combined biomass and black liquor gasifier and gas turbine cogeneration at pulp and paper mills, J Eng Gas Turbines Power **121**(3) 394-400 (Jul 1999), 10A1469
Lean flammability limit of polymethylmethacrylate particle-cloud in microgravity, Combust Flame **118**(3) 359-369 (Aug 1999), 11A1490
Computation of vortex shedding in solid rocket motors using time-dependent turbulence model, J Propulsion Power **15**(3) 390-400 (May-Jun 1999), 12A1488

416Q. Liquid fuels

Near-critical liquid oxygen droplet measurements, J Propulsion Power **14**(4) 579-581 (Jul-Aug 1998), 2A1382
Liquid Propellant Gun Technology (AIAA, Reston, VA, 1997) 3R26
Propulsion Combustion: Fuels to Emissions (Taylor & Francis, Washington DC, 1998) 3N28
Experimental and numerical investigation on cavitating flows in diesel injection systems, Meccanica **33**(4) 407-425 (Aug 1998), 3A1192
Investigation of heat transfer and cooling characteristics of hydrocarbon fuels, J Propulsion Power **14**(5) 789-796 (Sep-Oct 1998), 3A1380
Challenges in Propellants and Combustion: 100 Years After Nobel (Begell House, New York, 1997) 4N32
Investigation of the formation and venting of flammable mixtures formed within liquid fuel vessels, J Eng Gas Turbines Power **121**(1) 68-73 (Jan 1999), 5A1391
Transient turbulent gaseous fuel jets for diesel engines, J Fluids Eng **121**(1) 93-101 (Mar 1999), 7A1066
Combustion of benzene in rich premixed flames at atmospheric pressure, Combust Flame **117**(3) 553-561 (May 1999), 7A1481
Modeling of deposition process in liquid fuels, Combust Sci Tech **139**(1-6) 75-111 (Oct 1998), 10A1440
Characterization of charged hydrocarbon sprays for application in combustion systems, Exp Fluids **26**(5) 460-469 (Apr 1999), 10A1453
Combined biomass and black liquor gasifier and gas turbine cogeneration at pulp and paper mills, J Eng Gas Turbines Power **121**(3) 394-400 (Jul 1999), 10A1469
Research on combustion of black-liquor drops, Prog Energy Combust Sci **25**(3) 275-304 (1999), 12A1464

416R. Oxidation and oxidizers

Influence of nitric oxide on the oxidation of methanol and ethanol, Combust Flame **115**(4) 561-567 (Dec 1998), 1A1416
Study of catalytic reduction of NO$_x$ in exhaust gas from a diesel engine, Exp Thermal Fluid Sci **18**(3) 220-230 (Nov 1998), 5T1383
Zero-emission MATIANT cycle, J Eng Gas Turbines Power **121**(1) 116-120 (Jan 1999), 5A1384
Condensed-phase species distributions about Al particles reacting in various oxidizers, Combust Flame **117**(1-2) 351-361 (Apr 1999), 7A1482
Low-temperature oxidation of coal studied using wire-mesh reactors with both steady-state and transient methods, Combust Flame **117**(3) 646-651 (May 1999), 7A1483
Combustion of carbon particle departing from equilibrium flow in oxidizing atmosphere (Chinese), J Dalian Univ Tech **38**(6) 691-694 (Nov 1998), 8A1433
Oxygen-Enhanced Combustion (CRC Press, Boca Raton FL, 1998) 9R38
Shock-tube and modeling study of ethylene pyrolysis and oxidation, Combust Flame **117**(4) 755-776 (Jun 1999), 9A1464
Autothermal behavior of platinum catalyzed hydrogen oxidation: Experiments and modeling, Combust Flame **118**(1-2) 164-178 (Jul 1999), 10A1441
Oxidation of neopentane in a jet-stirred reactor from 1 to 10 ATM: An experimental and detailed kinetic modeling study, Combust Flame **118**(1-2) 191-203 (Jul 1999), 10A1442
Flow reactor study of neopentane oxidation at 8 atmospheres: Experiments and modeling, Combust Flame **118**(3) 415-430 (Aug 1999), 11A1491

416S. Flame and fire (spread and extinction)

Inhibition of nonpremixed flames by phosphorus-containing compounds, Combust Flame **116**(1-2) 166-176 (Jan 1999), 2A1383
Numerical investigation of CH$_4$/CO$_2$/Air and CH$_4$/CO$_2$/O$_2$ counterflow premixed flames with radiation reabsorption, Combust Sci Tech **135**(1-6) 49-64 (Jun 1998), 5A1392
Extinguishment of liquid heptane and gaseous propane diffusion flames, J Propulsion Power **15**(2) 260-265 (Mar-Apr 1999), 8A1431
Fire dynamics: A primer, J Propulsion Power **15**(2) 204-215 (Mar-Apr 1999), 8A1432
Axisymmetric flame spread across propanol pools in normal and zero gravities, Combust Sci Tech **139**(1-6) 249-275 (Oct 1998), 10A1443
Empirically derived predicators of natural gas flame lengths in circular tubes, HVAC&R Res **5**(2) 139-150 (Api 1999), 10A1444
Flame extinction limits in CH$_2$F$_2$-air mixtures, Combust Flame **118**(1-2) 25-36 (Jul 1999), 10A1445
Binary CF$_3$Br- and CHF$_3$-inert flame suppressants: Effect of temperature on the flame inhibition effectiveness of CF$_3$Br and CHF$_3$, Combust Flame **118**(3) 489-499 (Aug 1999), 11A1492
Combustion phenomena in polymers and fibers: Fire retardancy, Fibres Textiles in E Europe **6**(4) 16-19 (Sep-Dec 1998), 11T1493
Experimental study of opposed flow flame spread over wood fiber-thermoplastic composite materials, Combust Flame **118**(3) 317-326 (Aug 1999), 11A1494
Examination of the flame spread limits in a dual fuel engine, Appl Thermal Eng **19**(10) 1071-1080 (Oct 1999), 11A1505
Flame spread along a fuel rod in the absence of gravity, Combustion Theory Model **3**(2) 259-265 (Jun 1999), 12A1465
Measurement of doorway flow field in multi-enclosure building fires, Int J Heat Mass Transfer **42**(17) 3253-3265 (Sep 1999), 12A1466
Numerical simulation of the noncharring pyrolysis process and fire development within a compartment, Appl Math Model **23**(8) 587-607 (Aug 1999), 12A1467

416T. Combustion, flame, and fire modeling

Effective thermal conductivity model of flame spread over a shallow subflash liquid fuel layer, J Heat Transfer **120**(3) 781-784 (Aug 1998), 1T1417
Laminar flamelet modeling of turbulent premixed combustion, Appl Math Model **22**(1-2) 113-136 (Jan-Feb 1998), 1A1418
Numerical modeling of fire walls to simulate fire resistance test, J Heat Transfer **120**(3) 661-666 (Aug 1998), 1A1419
Flame localization inside axis-symmetric cylindrical and spherical porous media burners, Int J Heat Mass Transfer **41**(22) 3647-3655 (Nov 1998), 3A1381
KPP analysis applied to a coherent flame model (Chinese), J Xi'an Jiaotong Univ **32**(8) 31-34 (1998), 3A1382
Threshold phenomenon in the propagation of a point source initiated flame, Physica D **121**(3-4) 295-316 (Oct 1998), 3A1383
Flame fronts in a turbulent combustion model with fractal velocity fields, Commun Pure Appl Math **51**(11-12) 1337-1348 (Nov-Dec 1998), 4A1425
Nonadiabatic frontal polymerization, J Eng Math **34**(3) 301-318 (Oct 1998), 4A1432
Reduced chemical kinetic model for knock predictions (Chinese), J Huazhong Univ Sci Tech **26**(7) 39-41 (Jul 1998), 4A1433
Numerical simulation of combustion and extinction of a solid cylinder in low-speed cross flow, J Heat Transfer **120**(4) 1055-1063 (Nov 1998), 4A1435
Numerical simulations of a lobed fuel injector, Phys Fluids **10**(11) 2950-2964 (Nov 1998), 4A1436
Simulation of the gas engine cycle with a controlled heat release in the combustion chamber, Memoirs Fac Eng Kyushu Univ **58**(3) 147-161 (Sep 1998), 4A1441
Assessment of single- and two-zone turbulence formulations for quasi-dimensional modeling of spark-ignition engine combustion, Combust Sci Tech **136**(1-6) 13-39 (Jul 1998), 5A1393
Flamelet-modeling of turbulent spray diffusion flames based on a laminar spray flame library, Combust Sci Tech **135**(1-6) 175-192 (Jun 1998), 5A1394
Introduction of dilution in the BML model: Application to a stagnating turbulent flame, Combust Sci Tech **135**(1-6) 153-173 (Jun 1998), 5A1395
Inverse problem of specifying combustion parameters in the design of airbag inflators with neural networks, Combust Sci Tech **136**(1-6) 171-197 (Jul 1998), 5A1396
Joint scalar-velocity pdf modeling of finite rate chemistry in a scalar mixing layer, Combust Sci Tech **136**(1-6) 303-331 (Jul 1998), 5A1397
Metal agglomeration in solid propellants combustion - Part 1: Dynamical model of process, Combust Sci Tech **136**(1-6) 125-148 (Jul 1998), 5A1398
Metal agglomeration in solid propellants combustion - Part 2: Numerical experiments, Combust Sci Tech **136**(1-6) 149-169 (Jul 1998), 5A1399
Mixing model for joint scalar statistics, Combust Sci Tech **136**(1-6) 95-123 (Jul 1998), 5A1400
Model of steady-state convective combustion of micropore propellants, J Beijing IT **7**(1) 107-112 (Mar 1998), 5A1401
Numerical simulations of highly preheated air combustion in an industrial furnace, J Energy Resources Tech **120**(4) 276-284 (Dec 1998), 5A1402
Supercritical vaporization of liquid oxygen droplets using molecular dynamics, Combust Sci Tech **136**(1-6) 279-301 (Jul 1998), 5A1403
Use of a modified Petrov-Galerkin method for gas-solid reaction modeling, IMA J Appl Math **61**(1) 33-46 (Sep 1998), 5A1404
Application of adaptive quadrature to fire radiation modeling, J Heat Transfer **121**(1) 203-205 (Feb 1999), 7T1484
Asymptotic theory of condensed phase combustion with inert melting, Appl Math Lett **12**(3) 89-94 (May 1999), 7A1485
Characteristic flow modes of wake-stabilized jet flames in a transverse air stream, Combust Flame **117**(1-2) 59-77 (Apr 1999), 7A1486
Finite-rate chemistry in modeling of 2D jet premixed CH$_4$-air flame, Int J Heat Mass Transfer **42**(10) 1757-1773 (May 1999), 7A1487
Investigations of heat release, extinction, and time evolution of the flame surface, for a nonpremixed flame interacting with a vortex, Combust Flame **117**(1-2) 189-205 (Apr 1999), 7A1488
New premixed turbulent combustion model for constant volume combustion bomb (Chinese), J Xi'an Jiaotong Univ **33**(1) 10-14 (1999), 7A1489
Parametric study on the influence of the spark plug position on combustion, emissions and performance of an engine, J Brazilian Soc Mech Sci **20**(4) 506-517 (Dec 1998), 7A1490
Role of inter- and intraparticle diffusion in nonuniform particle size gasless compacted-powder combustion synthesis - I: Formulation, Int J Heat Mass Transfer **42**(6) 1059-1073 (Mar 1999), 7A1491
Role of inter- and intraparticle diffusion in nonuniform particle size gasless compacted-powder combustion synthesis - II: Results and comparison with experiment, Int J Heat Mass Transfer **42**(6) 1075-1095 (Mar 1999), 7A1492
Two-equation turbulence model and its application to a buoyant diffusion flame, Int J Heat Mass Transfer **42**(7) 1305-1315 (Apr 1999), 7A1493
Combustion of carbon particle departing from equilibrium flow in oxidizing atmosphere (Chinese), J Dalian Univ Tech **38**(6) 691-694 (Nov 1998), 8A1433
Effects of spray characteristics on combustion performance of a liquid fuel spray in a gas turbine combustor, Int J Energy Res **23**(3) 217-228 (Mar 1999), 9A1465
Active control of combustion for optimal performance, J Eng Gas Turbines Power **121**(3) 437-443 (Jul 1999), 10A1446
Ignitability of polymers related to polymer properties and different steady states of combustion, J Thermal Anal Calorimetry **55**(3) 727-739 (1999), 10A1447
Incinerability of highly fluorinated organic compounds, Combust Sci Tech **139**(1-6) 385-402 (Oct 1998), 10A1448
Investigation of catalytic combustion within a fin boundary layer, Combust Flame **118**(1-2) 3-12 (Jul 1999), 10A1449
Transient effects in the droplet combustion process in an acoustically perturbed high temperature environment, Combust Sci Tech **139**(1-6) 173-189 (Oct 1998), 10A1450
Kinetic modeling of the ignition delays in monomethylhydrazine-hydrogen-oxygen-argon gaseous mixtures, Proc Inst Mech Eng J Aerospace Eng **212**(G6) 393-406 (1998), 11A1474
Unsteady-state simulation of model ram accelerator in expansion tube, AIAA J **37**(5) 537-543 (May 1999), 11A1483
Combustion and emission characteristics in a gas turbine combustor at different pressure and swirl conditions, Appl Thermal Eng **19**(9) 949-967 (Sep 1999), 11A1495
Analytic solutions for stochastic reactor models based on the joint PDF, Combustion Theory Model **3**(2) 343-358 (Jun 1999), 12A1468

Direct numerical simulation of a statistically stationary turbulent reacting flow, Combustion Theory Model **3**(2) 371-408 (Jun 1999), 12A1469
Existence conditions and drift velocities of adiabatic flame-balls in weak gravity fields, Combustion Theory Model **3**(2) 281-296 (Jun 1999), 12A1470
Global reduced mechanisms for methane and hydrogen combustion with nitric oxide formation constructed with CSP data, Combustion Theory Model **3**(2) 233-257 (Jun 1999), 12A1471
Modeling spontaneous combustion in wet lignite, Combustion Theory Model **3**(2) 215-232 (Jun 1999), 12A1472
Numerical simulation of turbulent diffusion flame in cross flow, Combust Sci Tech **140**(1-6) 93-122 (Nov 1998), 12A1473
Simulations of local extinction phenomena in bluff-body stabilized diffusion flames with a Lagrangian reactedness model, Combustion Theory Model **3**(2) 409-431 (Jun 1999), 12A1474
Adaptive projection method for unsteady, low-mach number combustion, Combust Sci Tech **140**(1-6) 123-168 (Nov 1998), 12A1475

416Y. Computational techniques

Front tracking method for the motion of premixed flames, J Comput Phys **144**(1) 52-69 (Jul 1998), 1T1420
New parallel solver for the nonperiodic incompressible Navier-Stokes equations with a Fourier method: Application to frontal polymerization, J Comput Phys **145**(1) 316-331 (Sep 1998), 2T1109
Limitations of a reduced model for the simulation of hydrogen-air combustion, AIAA J **36**(9) 1752-1754 (Sep 1998), 2T1126
Analytical solution for the quasi-steady droplet combustion, Combust Flame **116**(1-2) 302-306 (Jan 1999), 2A1384
Classification of combustion regimes in a packed bed of particles based on the relevant time and length scales, Combust Flame **116**(1-2) 297-301 (Jan 1999), 2A1385
Discretization of the stationary convection-diffusion-reaction equation, Numer Methods PDE **14**(5) 607-625 (Sep 1998), 2A1386
Dynamical electric wire tomography: A time series approach, Inverse Prob **14**(4) 799-813 (Aug 1998), 2A1387
Modeling flow and heat transfer in vortex burners, AIAA J **36**(9) 1665-1670 (Sep 1998), 2A1388
Numerical prediction of the dynamic behavior of turbulent diffusion flames, J Eng Gas Turbines Power **120**(4) 713-720 (Oct 1998), 2A1389
Numerical study of the inhibition of premixed and diffusion flames by iron pentacarbonyl, Combust Flame **116**(1-2) 207-219 (Jan 1999), 2A1390
Implicit multigrid method for the simulation of chemically reacting flows, J Comput Phys **146**(1) 322-345 (Oct 1998), 3T1077
Detailed numerical simulation of flame ball structure and dynamics, Combust Flame **116**(3) 387-397 (Feb 1999), 3A1384
Numerical modeling of isolated n-alkane droplet flames: Initial comparisons with ground and space-based microgravity experiments, Combust Flame **116**(3) 432-459 (Feb 1999), 3A1385
Computational fluid dynamics aided combustion analysis, Acta Polytech Scand Mech Eng **0**(131) 2-165 (1998), 4A1434
Numerical simulation of combustion and extinction of a solid cylinder in low-speed cross flow, J Heat Transfer **120**(4) 1055-1063 (Nov 1998), 4A1435
Numerical simulations of a lobed fuel injector, Phys Fluids **10**(11) 2950-2964 (Nov 1998), 4A1436
CFD modeling of a gas turbine combustor from compressor exit to turbine inlet, J Eng Gas Turbines Power **121**(1) 89-95 (Jan 1999), 5A1385
Numerical simulations of highly preheated air combustion in an industrial furnace, J Energy Resources Tech **120**(4) 276-284 (Dec 1998), 5A1402
Use of a modified Petrov-Galerkin method for gas-solid reaction modeling, IMA J Appl Math **61**(1) 33-46 (Sep 1998), 5A1404
Computational investigation of shock-enhanced mixing: Application to circular cross section combustor, AIAA J **36**(11) 2055-2062 (Nov 1998), 5A1405
Finite volume scheme on unstructured grids for stiff chemically reacting flows, Combust Sci Tech **135**(1-6) 99-116 (Jun 1998), 5A1406
Flow measurements in enlarged-bore seal chambers, Trib Trans **41**(4) 505-512 (Oct 1998), 5T1407
Numerical study of curved flames under confinement, Combust Sci Tech **136**(1-6) 221-251 (Jul 1998), 5A1408
Simulation of supersonic reacting hydrocarbon flows with detailed chemistry, Combust Sci Tech **136**(1-6) 55-80 (Jul 1998), 5A1409
Use of wavelets in computational combustion, J Comput Phys **147**(2) 337-361 (Dec 1998), 5A1410
Simulations of turbulent methane jet diffusion flames with local extinction effects, Fluid Dyn Res **24**(2) 103-119 (Feb 1999), 6A1422
Compound adaptive approach to degenerate nonlinear quenching problems, Numer Methods PDE **15**(1) 29-47 (Jan 1999), 6A1446
Heat Transfer Division - 1998, Volume 2: Combustion and Radiation Heat Transfer (ASME, New York, 1998) 7N31
Investigation of modeling for non-premixed turbulent combustion, Flow Turbulence Combust **60**(1) 105-122 (1998), 7T1448
Time-accurate scheme for the calculations of unsteady reactive flows at low Mach number, Int J Numer Methods Fluids **29**(2) 207-227 (Jan 1999), 7A1451
Phase segregation effects on the calculation of ODTX in HMX spheres, Combust Flame **117**(3) 657-659 (May 1999), 7A1494
Three-dimensional computation of heat transfer from flames between vertical parallel walls, Combust Flame **117**(3) 574-588 (May 1999), 7A1495
Evaluation of supersonic turbulent mixing using catalytic combustion of constant temperature Pt wire, JSME Int J Ser B **42**(1) 65-70 (Feb 1999), 8T1421
LDA flow rate measurements applied for analysis of transient injection characteristics, JSME Int J Ser B **42**(1) 22-29 (Feb 1999), 8T1422
Accurate thermometry using NO and OH laser-induced fluorescence in an atmospheric pressure flame: Checked by narrow-band N_2 coherent anti-stokes Raman scattering, JSME Int J Ser B **42**(1) 119-126 (Feb 1999), 8A1434
Comprehensive model to predict simplex atomizer performance, J Eng Gas Turbines Power **121**(2) 285-294 (Apr 1999), 8A1435
Development of a five-step global methane oxidation-NO formation mechanism for lean-premixed gas turbine combustion, J Eng Gas Turbines Power **121**(2) 272-280 (Apr 1999), 8A1436
Evaluation of premixed combustion around a bluff body using a combustion model, JSME Int J Ser B **41**(3) 650656 (Aug 1998), 8A1437
Experimental and 3D CFD investigation in a gas turbine exhaust system, J Eng Gas Turbines Power **121**(2) 364-374 (Apr 1999), 8A1438
Algorithm for the construction of global reduced mechanisms with CSP data, Combust Flame **117**(4) 685-708 (Jun 1999), 9A1466
Scalar Monte Carlo PDF computations of spray flames on unstructured grids with parallel computing, Numer Heat Transfer B **35**(2) 185-209 (Mar 1999), 9A1467
Active control of combustion for optimal performance, J Eng Gas Turbines Power **121**(3) 437-443 (Jul 1999), 10A1446
Two-dimensional planar computational investigation of flame broadening in confined non-premixed jets, Combust Flame **118**(1-2) 233-247 (Jul 1999), 10A1451
Moving mesh method in multiblock domains with application to a combustion problem, Numer Methods PDE **15**(4) 449-467 (Jul 1999), 11A52
Numerical simulation and experimental validation of the turbulent combustion and perlite expansion processes in an industrial perlite expansion furnace, Flow Turbulence Combust **60**(3) 283-300 (1998), 11T1479
Predicting heats of formation of energetic materials using quantum mechanical calculations, Combust Flame **118**(3) 445-458 (Aug 1999), 11A1496
Numerical modeling of single cylinder internal combustion engines: Influence of intake and exhaust manifold design on volumetric efficiency, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 21-54 (1999), 11A1506
Numerical simulation of the noncharring pyrolysis process and fire development within a compartment, Appl Math Model **23**(8) 587-607 (Aug 1999), 12A1467
Direct numerical simulation of a statistically stationary turbulent reacting flow, Combustion Theory Model **3**(2) 371-408 (Jun 1999), 12A1469
Adaptive projection method for unsteady, low-mach number combustion, Combust Sci Tech **140**(1-6) 123-168 (Nov 1998), 12A1475
Numerical study of the unsteady burning behavior of n-heptane droplets, Combustion Theory Model **3**(2) 267-280 (Jun 1999), 12A1476
Reactedness model for local extinction and reignition phenomena in turbulent jet diffusion flames, Comput Assisted Mech Eng Sci **6**(1) 115-130 (1999), 12A1477

416Z. Experimental techniques

Experimental measurements in the BYU controled profile reactor, Prog Energy Combust Sci **24**(5) 355-383 (1998), 1A1421
Hydroxyl time-series measurements in laminar and moderately turbulent methane-air diffusion flames, Combust Flame **115**(4) 443-455 (Dec 1998), 1A1422
MBMS analysis of a fuel-lean ethylene flame, Combust Flame **115**(4) 456-467 (Dec 1998), 1A1423
Spatial averaging effects in CARS thermometry of a nonpremixed flame, Combust Flame **115**(4) 481-486 (Dec 1998), 1A1424
Transport enhancement in acoustically excited cavity flows - Part 2: Reactive flow diagnostics, AIAA J **36**(9) 1568-1574 (Sep 1998), 2A452
Overview of the NASA microgravity combustion program, AIAA J **36**(8) 1337-1345 (Aug 1998), 2A1357
Suppression of flame wrinkling by buoyancy: The baroclinic stabilization mechanism, AIAA J **36**(8) 1432-1438 (Aug 1998), 2A1368
Application of ultrasonic tomographic imaging to study smoldering combustion, Combust Flame **116**(1-2) 120-135 (Jan 1999), 2A1391
Combustion of single droplet of blended fuels in high-temperature ambient (Chinese), Papers Ship Res Inst **35**(1) 1-12 (1998), 2A1392
Concentration and temperature profiles of diffusion flames in droptower experiments, AIAA J **36**(9) 1743-1744 (Sep 1998), 2T1393
Experimental study of flame balls in space: Preliminary results from STS-83, AIAA J **36**(8) 1361-1368 (Aug 1998), 2A1394
Gas chromatrography as a complementary analytical technique to molecular beam mass spectrometry for studying flame structure, Combust Flame **116**(1-2) 307-309 (Jan 1999), 2A1395
Laser-saturated fluorescence measurements of nitric oxide in an inverse diffusion flame, Combust Flame **116**(1-2) 282-290 (Jan 1999), 2A1396
Measurement of dimensionless soot extinction constant using a gravimetric sampling technique, Exp Thermal Fluid Sci **18**(1) 27-32 (Sep 1998), 2T1397
Microgravity n-heptane droplet combustion in oxygen-helium mixtures at atmospheric pressure, AIAA J **36**(8) 1369-1378 (Aug 1998), 2A1398
Structure and soot properties of nonbuoyant ethylene-air laminar jet diffusion flames, AIAA J **36**(8) 1346-1360 (Aug 1998), 2A1399
Experimental investigation of shear coaxial cryogenic jet flames, J Propulsion Power **14**(5) 826-834 (Sep-Oct 1998), 3A1386
Ionic current for detecting burning signals in combustion chamber of gasoline engine (Chinese), J Xi'an Jiaotong Univ **32**(9) 64-67 (1998), 3A1387
Space shuttle based microgravity smoldering combustion experiments, Combust Flame **116**(3) 398-414 (Feb 1999), 3A1388
Diffusion flame stabilized on a porous plate in a parallel airstream, AIAA J **36**(11) 1945-1952 (Nov 1998), 5A1377
Constant volume combustion of aluminum and cornstarch dust in microgravity, Combust Sci Tech **135**(1-6) 255-267 (Jun 1998), 5A1411
Experimental design of fire retardant formulations: SMC low profile formulations, J Composite Mat **32**(23) 2120-2155 (1998), 5A1412
Molecular-beam mass-spectrometry to ammonium dinitramide combustion chemistry studies, J Propulsion Power **14**(6) 991-1000 (Nov-Dec 1998), 5A1413
Premixed methane-air flame spectra measurements using UV Raman scattering, Combust Sci Tech **135**(1-6) 65-84 (Jun 1998), 5A1414
Pulsating combustion of magnesium particles in CO, Combust Sci Tech **135**(1-6) 241-254 (Jun 1998), 5A1415
Light scattering for particle characterization, Prog Energy Combust Sci **25**(1) 1-53 (1999), 6A1453
Comparison of non-fuel hydrocarbon concentrations measured in coflowing nonpremixed flames fueled with small hydrocarbons, Combust Flame **117**(1-2) 362-372 (Apr 1999), 7A1496
Droplet lasing spectroscopy applied to droplet stream flames, Combust Flame **117**(1-2) 413-421 (Apr 1999), 7A1497
Scalar and velocity field measurements in a lifted CH_4-air diffusion flame, Combust Flame **117**(1-2) 257-271 (Apr 1999), 7A1498
Simultaneous temperature and species measurements of the glycidyl azide polymer propellant during laser-induced decomposition, Combust Flame **117**(1-2) 244-256 (Apr 1999), 7A1499
Study of the gas-phase chemical structure during CO_2 laser assisted combustion of HMX, Combust Flame **117**(1-2) 170-188 (Apr 1999), 7A1500
Temperature measurement in the swirl chamber of an IDI engine using Moire deflectometry, Appl Thermal Eng **19**(5) 543-554 (May 1999), 8A1282
Fractal nature of turbulent premixed flame structure (Chinese), J Xi'an Jiaotong Univ **33**(2) 22-24 (1999), 8A1439
Simultaneous temperature and species measurements during self-oscillating burning of HMX, J Propulsion Power **15**(2) 296-303 (Mar-Apr 1999), 8A1440
Topology of turbulent premixed flame fronts resolved by simultaneous planar imaging of LIPF of OH radical and Rayleigh scattering, Exp Fluids **26**(4) 277-287 (Mar 1999), 9A1450
Comparison of saturated and linear laser-induced fluorescence measurements of nitric oxide in counterflow diffusion flames, Combust Flame **117**(4) 810-820 (Jun 1999), 9A1468
Investigating a methanol spray flame interacting with an annular air jet using phase-doppler interferometry and planar laser-induced fluorescence, Combust Flame **117**(4) 661-684 (Jun 1999), 9A1469
Laser Rayleigh measurement of mixing processes and control of hydrogen combustion using quenching meshes, Nucl Eng Des **187**(3) 291-302 (Mar 1999), 9A1470
Measurement of transient 2D profiles of velocity and fuel concentration over liquids, J Heat Transfer **121**(2) 413-419 (May 1999), 9A1471
Recovery of temperature and species concentration profiles in flames using low-resolution infrared spectroscopy, J Heat Transfer **121**(2) 268-279 (May 1999), 9A1472
Absolute concentration measurements using DFWN and modeling of OH and S_2 in a fuel-rich H_2/Air/SO_2 flame, Combust Flame **118**(1-2) 301-307 (Jul 1999), 10A1452
Characterization of charged hydrocarbon sprays for application in combustion systems, Exp Fluids **26**(5) 460-469 (Apr 1999), 10A1453
Diamond deposition in low-pressure acetylene flames: In situ temperature and species concentration measurements by laser diagnostics and molecular beam mass spectrometry, Combust Flame **118**(1-2) 37-50 (Jul 1999), 10A1454
Dynamic light scattering in sooting premixed atmospheric-pressure methane-, propane-, ethene-, and propene-oxygen flames, Combust Flame **118**(1-2) 140-150 (Jul 1999), 10A1455
Modified two-sensor-method for the measurement of high gas temperature facing surroundings with different surface temperatures, Combust Sci Tech **139**(1-6) 229-247 (Oct 1998), 10A1456
Studies of energetic and nonenergetic materials immersed in molten salts, Combust Sci Tech **139**(1-6) 59-73 (Oct 1998), 10A1457
Transient measurements of radiative properties, soot volume fraction and soot temperature in a large pool fire, Combust Sci Tech **139**(1-6) 113-136 (Oct 1998), 10A1458
Shapes of nonbuoyant round luminous laminar-jet diffusion flames in coflowing air, AIAA J **37**(6) 759-765 (Jun 1999), 11A1477
Numerical simulation and experimental validation of the turbulent combustion and perlite expansion processes in an industrial perlite expansion furnace, Flow Turbulence Combust **60**(3) 283-300 (1998), 11T1479
Density matrix and rate equation analyses for picosecond pump-probe combustion diagnostics, AIAA J **37**(6) 723-731 (Jun 1999), 11A1497
Diode-laser sensors for real-time control of pulsed combustion systems, AIAA J **37**(6) 732-737 (Jun 1999), 11A1498
Soot measurements in a simulated engine exhaust using laser-induced incandescence, AIAA J **37**(6) 738-743 (Jun 1999), 11A1499
Application of 2D laser-induced fuel tracer fluorescence for ion current evaluation, Combust Sci Tech **140**(1-6) 295-314 (Nov 1998), 12A1478
Laser-induced fluorescence triple-integration method applied to hydroxyl concentration and fluorescence lifetime measurements, Combust Sci Tech **140**(1-6) 405-425 (Nov 1998), 12A1479

418. PRIME MOVERS AND PROPULSION

418B. Fundamentals

Energy and the environment: Efficient utilization of energy and water resources, Appl Thermal Eng **18**(11) 921-1169 (Nov 1998), 2T1356
Heat and Mass Transfer Australasia (Begell House, New York, 1998) 4N33
Analytical method for stirling engines and coolers, JSME Int J Ser B **41**(3) 632-640 (Aug 1998), 8T1441
Deriving the generalized rocket kinetic power equations and associated propulsion indexes, JSME Int J Ser B **42**(1) 127-136 (Feb 1999), 8A1442
Proceedings of the 5th ASME/JSME Thermal Engineering Joint Conference (ASME, New York, 1999) 9N39
Power optimization of an engine working in a closed Brayton cycle, Arch Thermodyn **18**(3-4) 81-94 (1997), 10A1459
Dynamic modeling and simulation of power plant systems, Proc Inst Mech Eng A **213**(A1) 7-22 (1999), 11A1500
Multistage finite-time optimization of endoreversible thermal machines, Proc Estonian Acad Sci Eng **5**(2) 142-154 (Jun 1999), 12A1480

418C. Performance

Fuzzy linear regression method for the performance evaluation of IC Engines (Chinese), J Huazhong Univ Sci Tech **26**(5) 61-62 (May 1998), 2A1400
Object-oriented design and implementation of gas turbine steady-state performance simulation (Chinese), J Shanghai Jiaotong Univ **32**(7) 58-62 (Jul 1998), 4A1443
Combined power and cooling: An analysis of the combined diesel-absorption cycle, Appl Thermal Eng **19**(10) 1097-1105 (Oct 1999), 11A1501

Digital simulation of propulsion system performance for cycle optimization studies, Int J Turbo Jet Engines **16**(1) 27-37 (1999), 11A1502
Intelligent computer aided optimization of power and energy systems, Proc Inst Mech Eng A **213**(A1) 1-6 (1999), 11A1503
Prediction of horizontal axis wind turbine performance in yawed flow using an unsteady prescribed wake model, Proc Inst Mech Eng A **213**(A1) 33-43 (1999), 11A1504

418D. Steam engines and turbines

Three-dimensional blade boundary layer and endwall flow development in the nozzle passage of a single stage turbine, J Fluids Eng **120**(3) 570-579 (Sep 1998), 1A1425
Model predictive control of a combined heat and power plant using local linear models, J Eng Gas Turbines Power **120**(4) 689-693 (Oct 1998), 2A535
Analytical model for the stirling engine cycle, Sci Eng J (Ciencia Eng) **7**(1) 24-30 (Jan-Jun 1998), 2A1401
Optical measurement of wet steam in turbines, J Eng Gas Turbines Power **120**(4) 867-871 (Oct 1998), 2A1402
Hybrid vehicle simulation for a turbogenerator-based power-train, Proc Inst Mech Eng D **212**(D5) 357-368 (1998), 4A1437
Study on the simulation of prime mover of a turbine-generator (Chinese), J Huazhong Univ Sci Tech **26**(S1) 44-46 (May 1998), 4A1438
Comparison of advanced thermal cycles suitable for upgrading existing power plant, Appl Thermal Eng **19**(3) 227-237 (Mar 1999), 7A1501
Universal expression for optimum specific work of reciprocating heat engines having endoreversible Carnot efficiencies, Int J Energy Res **23**(4) 327-334 (Mar 1999), 9A1473
Numerical computation of steam flow in power plant condensers utilizing the 3D procedure, Trans Inst Fluid-Flow Machinery **0**(104) 31-44 (1998), 10T1281
Modular algorithm for the flow analysis in heat turbines, Trans Inst Fluid-Flow Machinery **0**(104) 19-29 (1998), 10A1460
Numerical simulation of the steam flow through a balanced control valve, Trans Inst Fluid-Flow Machinery **0**(104) 119-127 (1998), 10A1461
Numerical simulation of the steam flow through a balanced control valve, Trans Inst Fluid-Flow Machinery **0**(104) 119-127 (1998), 10A1462
Performance enhancement in coal fired thermal power plants - Part 2: Steam turbines, Int J Energy Res **23**(6) 489-515 (May 1999), 10A1463
Past experiences with automotive external combustion engines, J Eng Gas Turbines Power **121**(3) 546-550 (Jul 1999), 10A1477
Potential role of organic bottoming Rankine cycles in steam power stations, Proc Inst Mech Eng A **213**(A2) 75-81 (1999), 12A1481

418E. Internal combustion, positive displacement engines

Reliability optimization design of ICE parts based on neural networks (Chinese), J Huazhong Univ Sci Tech **26**(5) 63-65 (May 1998), 2A951
Fuzzy linear regression method for the performance evaluation of IC Engines (Chinese), J Huazhong Univ Sci Tech **26**(5) 61-62 (May 1998), 2A1400
Influence of the exhaust system on performance of a 4-cylinder supercharged engine, J Eng Gas Turbines Power **120**(4) 855-860 (Oct 1998), 2A1403
Reflections on free-piston Stirling engines - Part 1: Cyclic steady operation, J Propulsion Power **14**(4) 499-518 (Jul-Aug 1998), 2A1404
Role of computer aided engineering in the design optimization of exhaust after-treatment systems, Proc Inst Mech Eng D **212**(D3) 169-186 (1998), 2A1405
Theoretical and experimental study of a fluidic device as a fuel injector for natural gas engines, Proc Inst Mech Eng D **212**(D3) 215-226 (1998), 2A1406
Finite-time power limit for solar-radiant Ericsson engines in space applications, Appl Thermal Eng **18**(12) 1347-1357 (Dec 1998), 2A1508
Rugged and reliable system for measuring engine crankshaft speed fluctuations, J Dyn Syst Meas Control **120**(4) 533-536 (Dec 1998), 3A429
Identification of engine cylinder pressure from vibration signals by cepstral analysis (Chinese), J Huazhong Univ Sci Tech **26**(6) 79-81 (Jun 1998), 3A1216
Ionic current for detecting burning signals in combustion chamber of gasoline engine (Chinese), J Xi'an Jiaotong Univ **32**(9) 64-67 (1998), 3A1387
Predictions of liquid fuel injector performance with gaseous fuels, Proc Inst Mech Eng D **212**(D4) 311-317 (1998), 3A1389
Theoretical limits on the performance of stirling engines, Int J Energy Res **22**(11) 991-1000 (Sep 1998), 3A1390
New total variation diminishing scheme for the calculation of 1D flow in inlet and exhaust pipes of internal combustion engines, Proc Inst Mech Eng D **212**(D5) 437-448 (1998), 4A1170
Study of the premixed turbulent combustion mechanism taking the preferential diffusion effect into consideration, Memoirs Fac Eng Kyushu Univ **58**(2) 55-82 (Jun 1998), 4A1426
Combustion analysis and cycle-by-cycle variations in spark ignition engine combustion - Part 1: An evaluation of combustion analysis routines by reference to model data, Proc Inst Mech Eng D **212**(D5) 381-399 (1998), 4A1428
Prediction of the effect of injection parameters on NO_x emission and burning quality in the direct injection diesel engine using a modified multizone model, Proc Inst Mech Eng D **212**(D5) 427-436 (1998), 4A1430
Computer aided study of the transient performances of a highly rated sequentially turbocharged marine diesel engine, Proc Inst Mech Eng A **212**(A3) 185-196 (1998), 4A1439
Research on the fuzzy and dynamic monitoring of the diesel engine operating conditions, Proc Inst Mech Eng D **212**(D5) 421-426 (1998), 4A1440
Simulation of the gas engine cycle with a controlled heat release in the combustion chamber, Memoirs Fac Eng Kyushu Univ **58**(3) 147-161 (Sep 1998), 4A1441
Noise control of a two stroke engine car, J Beijing IT **7**(2) 203-209 (Jun 1998), 5A302
Abrasive wear of locomotive diesel engines and contaminant control, Trib Trans **41**(4) 605-609 (Oct 1998), 5A823
Distributed law of hydrodynamic lubrication of a cylinder liner of an internal combustion engine, Trib Trans **41**(4) 610-614 (Oct 1998), 5A1416
Numerical analysis of the emissions characteristics of biodiesel blended fuels, J Eng Gas Turbines Power **121**(1) 31-37 (Jan 1999), 5A1417
Turbulence characteristics of tumble flow in a four-valve engine, Exp Thermal Fluid Sci **18**(3) 231-243 (Nov 1998), 5T1418
Effects of exhaust gas recirculation temperature on diesel engine combustion and emissions, Proc Inst Mech Eng D **212**(D6) 479-500 (1998), 6A1431
Local mixture injection to extend the lean limit of spark-ignition engines, Exp Fluids **26**(1-2) 126-135 (Jan 1999), 6A1433
Modeling the effects of combustion and turbulence on near-wall temperature gradients in the cylinders of spark ignition engines, Proc Inst Mech Eng D **212**(D6) 533-546 (1998), 6A1434
Performance and emission characteristics of C_1 - C_5 alcohol-gasoline blends with matched oxygen content in a single-cylinder spark ignition engine, Proc Inst Mech Eng A **212**(A5) 363-379 (1998), 6A1447
Simulation model for a loop-scavenged two-stroke engine (Chinese), J Xi'an Jiaotong Univ **33**(1) 69-72 (1999), 7A58
Procedure for upgrading an electronic control diesel fuel injection system by considering several engine operating regimes simultaneously, J Mech Des **121**(1) 159-165 (Mar 1999), 7A392
Split ratio control in mini-dilution tunnels for measurement of steady-state and transient emissions from heavy duty diesel engines, Heavy Vehicle Syst **5**(3-4) 379-398 (1998), 7T1463
Parametric study on the influence of the spark plug position on combustion, emissions and performance of an engine, J Brazilian Soc Mech Sci **20**(4) 506-517 (Dec 1998), 7A1490
Development and application of a fully automatic troubleshooting method for large marine diesel engines, Appl Thermal Eng **19**(3) 299-324 (Mar 1999), 7A1502
Turbocharger for soft supercharging of automotive diesel engine (French), Rev Francaise Mec **0**(4) 237-245 (Dec 1998), 7A1503
NARMAX modeling and robust control of internal combustion engines, Int J Control **72**(4) 289-304 (Mar 1999), 8A432
Visualization and measurements of sub-millisecond transient spray dynamics applicable to direct injection gasoline engine - Part 2: PDA measurements and analysis of instantaneous spray patterns, JSME Int J Ser B **42**(1) 30-38 (Feb 1999), 8T1095
Temperature measurement in the swirl chamber of an IDI engine using Moire deflectometry, Appl Thermal Eng **19**(5) 543-554 (May 1999), 8A1282
Simulation and experimental analysis of diesel fuel-injection systems with a double-stage injector, J Eng Gas Turbines Power **121**(2) 186-196 (Apr 1999), 8A1400
Effects of thermal barrier coatings on diesel engine emissions, J Eng Gas Turbines Power **121**(2) 218-225 (Apr 1999), 8A1411
Analytical method for stirling engines and coolers, JSME Int J Ser B **41**(3) 632-640 (Aug 1998), 8T1441
Comprehensive influence of several major irreversibilities on the performance of an Ericsson heat engine, Appl Thermal Eng **19**(5) 555-564 (May 1999), 8A1443
Diagnosis of DI diesel combustion from in-cylinder pressure signal by estimation of mean thermodynamic properties of the gas, Appl Thermal Eng **19**(5) 513-529 (May 1999), 8A1444
Effect of biodiesel addition to diesel fuel on engine performance and emissions, J Propulsion Power **15**(2) 224-231 (Mar-Apr 1999), 8A1445
Limitations of rigid body descriptions for heavy-duty diesel engine vibration, J Eng Gas Turbines Power **121**(2) 197-204 (Apr 1999), 8A1446
Measurement of cycle-to-cycle variations and cycle-resolved turbulence in an IC engine using a 3D particle tracking velocimetry, JSME Int J Ser B **41**(4) 991-1003 (Nov 1998), 8A1447
Pursuing customer satisfaction: An abridged technical history of cummins engine development, J Eng Gas Turbines Power **121**(2) 177-185 (Apr 1999), 8A1448
Development of a muffler for control of noise pollution in a diesel engine, Proc Inst Mech Eng D **213**(D1) 83-90 (1999), 9A354
Computer program for simulating the steady-state and transient behavior of direct-acting engine governors, Adv Eng Software **30**(4) 281-289 (Apr 1999), 9A1474
Non-parametric models in the monitoring of engine performance and condition - Part 1: Modeling of nonlinear engine processes, Proc Inst Mech Eng D **213**(D1) 73-81 (1999), 9A1475
Reed valve modeling in a computational fluid dynamics simulation of the two-stroke engine, Proc Inst Mech Eng D **213**(D1) 37-45 (1999), 9A1476
Testing the two stroke engine using mixtures of gasoline-ethanol, Heat Tech **16**(2) 57-61 (1998), 9A1477
Experimental investigations on noise attenuation of a twin cylinder stationary diesel engine with different types of mufflers, J Vib Acoust **121**(3) 351-354 (Jul 1999), 10A349
Compression ratio effect on methane HCCI combustion, J Eng Gas Turbines Power **121**(3) 569-574 (Jul 1999), 10A1464
Evaluating alternative internal combustion engines: 1950-1975, J Eng Gas Turbines Power **121**(3) 540-545 (Jul 1999), 10A1465
Mixing of multiple jets with a confined subsonic crossflow - Part II: Opposed rows of orifices in rectangular ducts, J Eng Gas Turbines Power **121**(3) 551-562 (Jul 1999), 10A1466
Performance of a low heat rejection diesel engine with air gap insulated piston, J Eng Gas Turbines Power **121**(3) 530-539 (Jul 1999), 10A1467
Engines: An Introduction (Cambridge UP, UK, 1999) 11R28
Examination of the flame spread limits in a dual fuel engine, Appl Thermal Eng **19**(10) 1071-1080 (Oct 1999), 11A1505
Numerical modeling of single cylinder internal combustion engines: Influence of intake and exhaust manifold design on volumetric efficiency, Rev Int Metodos Numer Calc Diseno Ing **15**(1) 21-54 (1999), 11A1506
Swirl measurements in a motor cylinder, Exp Fluids **26**(6) 542-548 (May 1999), 11A1507
Influence of the resonant frequency on the control of knock in diesel engines, Proc Inst Mech Eng D **213**(D2) 127-133 (1999), 12A172
Cycle-by-cycle modeling of NO formation and comparison with experimental data, Proc Inst Mech Eng D **213**(D2) 175-189 (1999), 12A1450
Reduction in polycyclic aromatic hydrocarbon emission and air pollution by using a methanol-containing additive in a gasoline-powered engine, Proc Inst Mech Eng D **213**(D2) 191-199 (1999), 12A1458
Variable geometry turbocharging for lower emissions and improved torque characteristics, Proc Inst Mech Eng D **213**(D2) 145-159 (1999), 12A1460
In-cyclinder fuel behavior and exhaust emissions during the cold operation of a spark ignition engine, Proc Inst Mech Eng D **213**(D2) 161-174 (1999), 12A1482
Modified through-flow wave-rotor cycle with combustor-bypass ducts, J Propulsion Power **15**(3) 462-467 (May-Jun 1999), 12A1483
New thermal engine concept suitable for automobiles, Proc Inst Mech Eng A **213**(A2) 119-125 (1999), 12A1484
Non-parametric models in the monitoring of engine performance and condition - Part 2: Non-intrusive estimation of diesel engine cylinder pressure and its use in fault detection, Proc Inst Mech Eng D **213**(D2) 135-143 (1999), 12A1485
Turbulence averaging within spark ignition engines, Exp Fluids **27**(1) 92-101 (Jun 1999), 12A1486

418F. Free piston and wave engines

Modeling piston-ring dynamics, blowby, and ring-twist effects, J Eng Gas Turbines Power **120**(4) 843-854 (Oct 1998), 2A1407
Comparative analysis of the windmilling performance of turbojet and turbofan engines, J Propulsion Power **15**(2) 326-333 (Mar-Apr 1999), 8A1449

418G. Gas turbines

Critical analysis of the thermodynamic advantages of reheat in gas turbines, Proc Inst Mech Eng A **212**(A2) 81-87 (1998), 1A1426
Development of a corrosion resistant directionally solidified material for land based turbine blades, J Eng Gas Turbines Power **120**(4) 744-750 (Oct 1998), 2A844
Numerical analysis of heat pipe turbine vane cooling, J Eng Gas Turbines Power **120**(4) 735-743 (Oct 1998), 2A1305
Experimental determination of losses in a three-port wave rotor, J Eng Gas Turbines Power **120**(4) 833-842 (Oct 1998), 2A1408
Industrial gas turbine performace uprates: Tips, tricks, and traps, J Eng Gas Turbines Power **120**(4) 727-734 (Oct 1998), 2A1409
Unsteady Aerodynamics and Aeroelasticity of Turbgomachines (Kluwer, Netherlands, 1998) 4N29
New analysis of recuperative gas turbine cycles, Proc Inst Mech Eng A **212**(A4) 289-296 (1998), 4A1442
Object-oriented design and implementation of gas turbine steady-state performance simulation (Chinese), J Shanghai Jiaotong Univ **32**(7) 58-62 (Jul 1998), 4A1443
High temperature proximity measurement in aero and industrial turbomachinery, J Eng Gas Turbines Power **121**(1) 167-173 (Jan 1999), 5A389
Effect of air extraction for cooling and/or gasification on combustor flow uniformity, J Eng Gas Turbines Power **121**(1) 46-54 (Jan 1999), 5A1381
Conceptual design of the cooling system for 1700°C-class, hydrogen-fueled combustion gas turbines, J Eng Gas Turbines Power **121**(1) 108-115 (Jan 1999), 5A1419
Cycle analyses of 5 and 20 MWe biomass gasifier-based electric power stations in Hawaii, J Eng Gas Turbines Power **121**(1) 25-30 (Jan 1999), 5A1420
Development of a computer code for the estimation of combustor exhaust temperature using simple gas analysis measurements, J Eng Gas Turbines Power **121**(1) 80-88 (Jan 1999), 5A1421
Final report on the development of a hydrogen-fueled combustion turbine cycle for power generation, J Eng Gas Turbines Power **121**(1) 38-45 (Jan 1999), 5A1422
Gas turbine cycle design methodology: A comparison of parameter variation with numerical optimization, J Eng Gas Turbines Power **121**(1) 6-11 (Jan 1999), 5A1423
Numerical investigation of the cooling effect of compressed natural gas throttling on engine delivery ratio, J Eng Gas Turbines Power **121**(1) 121-128 (Jan 1999), 5A1424
Small scale biomass fueled gas turbine engine, J Eng Gas Turbines Power **121**(1) 64-67 (Jan 1999), 5A1425
Simulation of power plant transients with artificial neural networks: Application to an existing combined cycle, Proc Inst Mech Eng A **212**(A5) 299-31 (1998), 6A1448
Heat Transfer Division - 1998, Volume 3: Application of Heat Transfer in Equipment, Systems, and Education (ASME, New York, 1998) 7N32
Coupled multidisciplinary optimization of engine structural performance, J Aircraft **36**(1) 190-199 (Jan-Feb 1999), 7A808
Comparison of performance of the integrated gas and steam cycle with the combined cycle, Appl Thermal Eng **19**(1) 75-87 (Jan 1999), 7A1504
Reynolds stress modeling of a jet and swirl interaction inside a gas turbine combustor, Int J Numer Methods Fluids **29**(4) 451-464 (Feb 1999), 7A1505
Qualitative characterization of anti-swirl gas dampers, J Eng Gas Turbines Power **121**(2) 342-348 (Apr 1999), 8A118
Experimental and 3D CFD investigation in a gas turbine exhaust system, J Eng Gas Turbines Power **121**(2) 364-374 (Apr 1999), 8A1438
Det Norske Veritas rule philosophy with regard to gas turbines for marine propulsion, J Eng Gas Turbines Power **121**(2) 320-324 (Apr 1999), 8A1450
Proceedings of the 5th ASME/JSME Thermal Engineering Joint Conference (ASME, New York, 1999) 9N39
Diffusion bonding of CMSX-4 to UDIMET 720 using PVD-coated interfaces and HIP, J Eng Gas Turbines Power **121**(3) 489-493 (Jul 1999), 10A1068
Assessment of the performance of closed cycles with and without heat rejection at cryogenic temperatures, J Eng Gas Turbines Power **121**(3) 458-465 (Jul 1999), 10A1468
Combined biomass and black liquor gasifier and gas turbine cogeneration at pulp and paper mills, J Eng Gas Turbines Power **121**(3) 394-400 (Jul 1999), 10A1469
Flow measurements in a curved-wall annular contraction, J Eng Gas Turbines Power **121**(3) 444-450 (Jul 1999), 10A1470
Parametric starting study of an axial-centrifugal gas turbine engine using a 1D dynamic engine model and comparisons to experimental results - Part I: Model development and facility description, J Eng

Gas Turbines Power **121**(3) 377-383 (Jul 1999), 10A1471
Parametric starting study of an axial-centrifugal gas turbine engine using a 1D dynamic engine model and comparisons to experimental results - Part II: Simulation calibration and trade-off study, J Eng Gas Turbines Power **121**(3) 384-393 (Jul 1999), 10A1472
Probabilistic model of creep life as a part of the procedure for the component technical condition assessment (Polish), Arch Energetics **27**(3-4) 3-18 (1998), 10A1473
Rapid characterization of fuel atomizers using an optical patternator, J Eng Gas Turbines Power **121**(3) 409-414 (Jul 1999), 10A1474
Status of Westinghouse hot gas filters for coal and biomass power systems, J Eng Gas Turbines Power **121**(3) 401-408 (Jul 1999), 10A1475
Testing and modeling gas turbines using multisine signals and frequency-domain techniques, J Eng Gas Turbines Power **121**(3) 451-457 (Jul 1999), 10A1476
Film cooling and heat transfer from a combination of two rows of simple and/or compound angle holes in inline and/or staggered configuration, Heat and Mass Transfer Warme **34**(6) 495-502 (Apr 1999), 11A1351
Combustion and emission characteristics in a gas turbine combustor at different pressure and swirl conditions, Appl Thermal Eng **19**(9) 949-967 (Sep 1999), 11A1495
Energy and exergy balance in a gust turbine combustor, Proc Inst Mech Eng A **213**(A1) 23-32 (1999), 11A1508
Analysis of dynamic properties of a gas turbine engine in a ship's auxiliary power unit, Marine Tech Trans **9** 5-23 (1998), 12A1487

418H. Rocket motors

Experimental database describing pulse-triggered nonlinear instability in solid rocket motors, J Propulsion Power **14**(4) 429-439 (Jul-Aug 1998), 2A1410
Modeling and estimation for electromechanical thrust vector control of rocket engines, J Propulsion Power **14**(4) 440-446 (Jul-Aug 1998), 2A1411
Modified fracture mechanics approach in structural analysis of solid-rocket motors, J Propulsion Power **14**(4) 409-415 (Jul-Aug 1998), 2A1412
Advanced rocket nozzles, J Propulsion Power **14**(5) 620-634 (Sep-Oct 1998), 3A1391
Dynamic amplification of fluid pressure in a propellant feed line, J Propulsion Power **14**(5) 635-640 (Sep-Oct 1998), 3A1392
Liquid-propellant rocket engine health-monitoring techniques, J Propulsion Power **14**(5) 657-663 (Sep-Oct 1998), 3A1393
Liquid-propellant rocket engine injector dynamics, J Propulsion Power **14**(5) 797-806 (Sep-Oct 1998), 3A1394
Modeling high-pressure mixing and combustion processes in liquid rocket engines, J Propulsion Power **14**(5) 843-857 (Sep-Oct 1998), 3A1395
Preliminary analysis of an airbreathing and rocket combined-cycle engine, J Propulsion Power **14**(5) 613-619 (Sep-Oct 1998), 3A1396
Propellant management in booster and upper-stage propulsion systems, J Propulsion Power **14**(5) 649-656 (Sep-Oct 1998), 3A1397
Propellant technologies: Far-reaching benefits for aeronautical and space-vehicle propulsion, J Propulsion Power **14**(5) 641-648 (Sep-Oct 1998), 3A1398
Status and issues related to in-space propulsion systems, J Propulsion Power **14**(5) 669-675 (Sep-Oct 1998), 3A1399
Optimal performance of a dual-fuel single-stage rocket, J Spacecraft Rockets **35**(5) 667-671 (Sep-Oct 1998), 4A1444
Elements of Space Technology (Academic Press, San Diego CA, 1999) 8N9
Computation of vortex shedding in solid rocket motors using time-dependent turbulence model, J Propulsion Power **15**(3) 390-400 (May-Jun 1999), 12A1488
Launch vehicle dynamic and control effects from solid rocket motor slag ejection, J Propulsion Power **15**(3) 468-475 (May-Jun 1999), 12A1489
Optimal performance of enthalpy rocket, J Propulsion Power **15**(3) 485-488 (May-Jun 1999), 12A1490

418I. Jet and fanjet engines

Reexamination of black carbon mass emission indices of a jet engine, Aerosol Sci Tech **29**(4) 355-356 (Oct 1998), 3A1400
Preliminary design of low cost propulsion systems using next generation cost modeling, J Eng Gas Turbines Power **121**(1) 1-5 (Jan 1999), 5A1426
Solving for mistuned forced response by symmetry, J Propulsion Power **15**(2) 310-325 (Mar-Apr 1999), 8A1451
Thrust-vectoring turbofan jet-engine analysis, Int J Turbo Jet Engines **16**(1) 39-48 (1999), 11A1509

418J. Ramjets

Investigation of a solid fuel scramjet combustor, J Propulsion Power **14**(4) 447-455 (Jul-Aug 1998), 2A1413
Experimental investigation of a supersonic combustion solid fuel ramjet, J Propulsion Power **14**(6) 880-889 (Nov-Dec 1998), 5A1427
Numerical simulation of hypersonic shock-induced combustion ramjets, J Propulsion Power **14**(6) 869-879 (Nov-Dec 1998), 5A1428
Effect of nonuniform nozzle flow on scramjet performance, J Propulsion Power **15**(2) 363-364 (Mar-Apr 1999), 8T1452
Two-way coupled gas-particle systems in an axisymmetric ramjet combustor, AIAA J **37**(3) 396-398 (Mar 1999), 8T1453
High Speed Propulsion (VKI Fluid Dyn, Rhode-St-Genese, Belgium, 1998) 11N30
Coherent Anti-stokes Raman scattering temperature measurements on an air-breathing ramjet model, AIAA J **37**(6) 744-750 (Jun 1999), 11A1347
Performance evaluation of scramjet combustors using kinetic energy and combustion efficiencies, J Propulsion Power **15**(3) 401-407 (May-Jun 1999), 12A1463

418K. Nuclear power systems

Generic magnetic fusion rocket model, J Propulsion Power **14**(4) 519-524 (Jul-Aug 1998), 2A1414
Simplified approach to performance evaluation of nuclear and electrical propulsion systems, J Propulsion Power **14**(4) 525-529 (Jul-Aug 1998), 2A1415
Vortex formation and stability in a scaled gas-core nucleus rocket configuration, J Propulsion Power **14**(4) 530-536 (Jul-Aug 1998), 2A1416
Efficiency comparisons for a centrifugal separator using hydrocarbon fluids and steam and water, J Energy Resources Tech **121**(2) 117-121 (Jun 1999), 9A1478
Activation product transport using TRACT: ORE estimation of an ITER cooling loop, Fusion Eng Des **45**(2) 169-185 (May 1999), 12A1491
Design study of a tritium transport package for future fusion reactors, Fusion Eng Des **45**(2) 187-195 (May 1999), 12A1492
Exploring novel high power density concepts for attractive fusion systems, Fusion Eng Des **45**(2) 145-167 (May 1999), 12A1493
JA home team design of the ITER ECRF power supply system, Fusion Eng Des **45**(2) 197-207 (May 1999), 12T1494

418L. Ionic, electric, and photonic propulsion

Arcjet anode plasma measurements using electrostatic probes, J Propulsion Power **14**(4) 560-567 (Jul-Aug 1998), 2A1417
Beamlet profiles from multiple-hole ion-extraction systems, J Propulsion Power **14**(4) 568-574 (Jul-Aug 1998), 2A1418
Effect of propellant temperature on efficiency in the pulsed plasma thruster, J Propulsion Power **14**(4) 545-553 (Jul-Aug 1998), 2A1419
Propellant losses because of particulate emission in a pulsed plasma thruster, J Propulsion Power **14**(4) 554-559 (Jul-Aug 1998), 2A1420
Experimental performance of field emission microthrusters, J Propulsion Power **14**(5) 774-781 (Sep-Oct 1998), 3A1401
High-power hydrogen arcjet thrusters, J Propulsion Power **14**(5) 764-773 (Sep-Oct 1998), 3A1402
Ion thruster development trends and status in the US, J Propulsion Power **14**(5) 708-715 (Sep-Oct 1998), 3A1403
Main physical features and processes determining the performance of stationary plasma thrusters, J Propulsion Power **14**(5) 736-743 (Sep-Oct 1998), 3A1404
Pulsed plasma thruster, J Propulsion Power **14**(5) 716-735 (Sep-Oct 1998), 3A1405
Scaling of thrust in self-field magnetoplasmadynamic thrusters, J Propulsion Power **14**(5) 744-753 (Sep-Oct 1998), 3A1406
Spacecraft electric propulsion: An overview, J Propulsion Power **14**(5) 688-699 (Sep-Oct 1998), 3A1407
Technology and application aspects of applied field magnetoplasmadynamic propulsion, J Propulsion Power **14**(5) 754-763 (Sep-Oct 1998), 3A1408
Development and demonstration of a cathodeless electron cyclotron resonance ion thruster, J Propulsion Power **14**(6) 1022-1026 (Nov-Dec 1998), 5A1429
Electrode configuration effect on the performance of a 2D magnetoplasmadynamic arcjet, J Propulsion Power **14**(6) 1043-1048 (Nov-Dec 1998), 5A1430
Microwave plume measurements of a closed drift hall thruster, J Propulsion Power **14**(6) 1016-1021 (Nov-Dec 1998), 5A1431
Monte Carlo simulation of neutral xenon flows in electric propulsion devices, J Propulsion Power **14**(6) 1009-1015 (Nov-Dec 1998), 5A1432
Numerical model of cesium ion beams in field emission electric propulsion thrusters, J Propulsion Power **14**(6) 1027-1035 (Nov-Dec 1998), 5A1433
Pulsed portable magnetohydrodynamic power system program, J Propulsion Power **14**(6) 1049-1058 (Nov-Dec 1998), 5A1434
Spot mode transition and the anode fall of pulsed magnetoplasmadynamic thrusters, J Propulsion Power **14**(6) 1036-1042 (Nov-Dec 1998), 5A1435
Modeling of stationary plasma thruster-100 thruster plumes and implications for satellite design, J Propulsion Power **15**(2) 345-357 (Mar-Apr 1999), 8A1454
Ion beamlet divergence characteristics of two-grid multiple-hole ion-accelerator systems, J Propulsion Power **15**(3) 377-382 (May-Jun 1999), 12A1495
Low-power helium pulsed arcjet, J Propulsion Power **15**(3) 440-446 (May-Jun 1999), 12A1496

418M. Working fluids

Research and development of a new coal based combined cycle power plant concept, JSME Int J Ser B **41**(3) 685-690 (Aug 1998), 8T1559

418N. Other devices

Comprehensive study of the friction and dynamic motion of the piston assembly, Proc Inst Mech Eng J: Eng Trib **212**(J3) 221-226 (1998), 1T1029
Numerical methodology to predict exhaust plumes of propulsion nozzles, J Fluids Eng **120**(3) 563-569 (Sep 1998), 1A1412
Analysis of the liquefaction process of exhaust gases from an underwater engine, Appl Thermal Eng **18**(12) 1243-1262 (Dec 1998), 2A1421
Slingatron mass launchers, J Propulsion Power **14**(4) 537-544 (Jul-Aug 1998), 2A1422
Strategies for pulsed denotation engine performance optimization, J Propulsion Power **14**(4) 489-498 (Jul-Aug 1998), 2A1423
Ram accelerator operating limits - Part 1: Identification of limits, J Propulsion Power **14**(6) 951-958 (Nov-Dec 1998), 5A1436
Ram accelerator operating limits - Part 2: Nature of observed limits, J Propulsion Power **14**(6) 959-966 (Nov-Dec 1998), 5A1437
New compression ignition engine concept for high power density, J Eng Gas Turbines Power **121**(2) 211-217 (Apr 1999), 8A1455
Past experiences with automotive external combustion engines, J Eng Gas Turbines Power **121**(3) 546-550 (Jul 1999), 10A1477
Electrothermally actuated bi-directional linear vibromotor, Microscale Thermophys Eng **3**(2) 141-150 (Apr-Jun 1999), 11A1510

VII. EARTH SCIENCES

450. MICROMERITICS

450B. Geometrical properties of solid particles

Characterization of standard reference material 1690 by modulated dynamic light scattering, Aerosol Sci Tech **29**(2) 73-80 (Aug 1998), 1A1427
Atmospheric size distributions measured by differential mobility optical particle size spectrometry, Aerosol Sci Tech **29**(5) 402-418 (Nov 1998), 4A1445
Calculated calibration curves for particle size determination based on time-of-flight, Aerosol Sci Tech **29**(5) 433-441 (Nov 1998), 4A1446
Effect of fiber geometry on deposition in small airways of the lung, Aerosol Sci Tech **29**(6) 459-474 (Dec 1998), 4A1447

450C. Mechanical and physical properties of solid particles

Formation and measurement of the porosities, tensile strengths, and deformation coefficients of gasification filter cakes at operating temperatures and pressures, Aerosol Sci Tech **29**(3) 236-245 (Sep 1998), 3A1409
Acceleration of charged particles in corotating interaction regions (CIR): A review with particular emphasis on the Ulysses mission, Surveys Geophys **19**(3) 211-278 (1998), 4A284
Flow singularities in a certain model of pore space, Arch Gornictwa **43**(3) 439-455 (1998), 12A1503

450D. Comminution of solids

Colloid-chemical aspects of mechanical activation, Particulate Sci Tech **16**(2) 145-161 (Apr-Jun 1998), 6A1452
Determination of phase-volume fractions from tomographic measurements in two-phase systems, Adv Water Resources **22**(6) 577-584 (Feb 1999), 8T1460

450F. Dynamics of solid particles

Prediction of particle deposition from a turbulent stream around a surface-mounted ribbon, Aerosol Sci Tech **29**(2) 141-151 (Aug 1998), 1A1428
Flow generated around particle clusters in a rotating ultrasonic waveguide, J Acoust Soc Am **104**(3-PT1) 1284-1288 (Sep 1998), 2A1424
Collision and coagulation in the infinite-Stokes-number regime, Aerosol Sci Tech **29**(6) 493-509 (Dec 1998), 4A1448
Formation of a jump by a dam-break wave over a granular bed, J Fluid Mech **372** 165-187 (Oct 1998), 4A1449
Models of rebound and capture for oblique microparticle impacts, Aerosol Sci Tech **29**(5) 379-388 (Nov 1998), 4A1450
Particle deposition with thermophoresis in laminar and turbulent duct flows, Aerosol Sci Tech **29**(6) 525-546 (Dec 1998), 4A1451
Spatial correlations in dilute granular flows: A kinematic model study, Phys Fluids **10**(11) 2965-2975 (Nov 1998), 4T1452
Herschel-Bulkley model for mud flow down a slope, J Fluid Mech **374** 305-333 (Nov 1998), 5A1438
Silo hiccups: Dynamic effects of dilatancy in granular flow, Phys Fluids **10**(12) 3072-3079 (Dec 1998), 5A1439
Effects of horizontal vibration on hopper flows of granular materials, Phys Fluids **11**(1) 68-75 (Jan 1999), 6A1449
Molecular dynamics simulations of sliding friction in a dense granular material, Model Simulation Mat Sci Eng **6**(6) 701-707 (Nov 1998), 6A1450
Analyses of slow high-concentration flows of granular materials, J Fluid Mech **377** 1-26 (Dec 1998), 7A1506
Eulerian and Lagrangian approaches for predicting the behavior of discrete particles in turbulent flows, Prog Energy Combust Sci **25**(2) 133-159 (1999), 7A1507
Particle segregation in monodisperse sheared suspensions, Phys Fluids **11**(3) 507-509 (Mar 1999), 8A971
Chaotic mixing of granular materials in 2D tumbling mixers, Chaos **9**(1) 195-205 (Mar 1999), 8A1456
Scaling laws in granular flows down rough inclined planes, Phys Fluids **11**(3) 542-548 (Mar 1999), 8A1457
Study on vibratory conveyance of granular materials, JSME Int J Ser C **41**(4) 704-709 (Dec 1998), 9A1479
Wave speeds for an elastoplastic model for 2D deformations with a nonassociative flow rule, Quart Appl Math **57**(2) 245-259 (Jun 1999), 10A253
Dynamic shear flow problems for granular materials, Quart J Mech Appl Math **52**(2) 253-267 (May 1999), 10A1478
Dilute gravity flows: A phenomenological model in thin layer theory (French), Comptes Rendus L'Acad Sci Serie II **327**(5) 457-462 (May 1999), 11A1511
High concentration granular shear flow, J Hydraul Res **37**(2) 229-248 (1999), 11A1512
Shape of granular fronts down rough inclined planes, Phys Fluids **11**(7) 1956-1958 (Jul 1999), 12T1497

450G. Snow motion

Pack ice convergence measurements by GPS-ARGOS ice beacons, Cold Regions Sci Tech **28**(2) 59-72 (Oct 1998), 5T1536
Thermodynamic effects of sublimating, blowing snow in the atmospheric boundary layer, Boundary-Layer Meteorol **89**(2) 251-283 (Nov 1998), 6T1451

450H. Characteristics of packings (pressured particles)

Colloid-chemical aspects of mechanical activation, Particulate Sci Tech **16**(2) 145-161 (Apr-Jun 1998), 6A1452

Velocity field for the punch problem for dilatant granular materials, Quart J Mech Appl Math **51**(PT1) 99-110 (Feb 1999), 8A685
Spring-network model and effective elastic moduli of granular materials, J Appl Mech **66**(1) 172-180 (Mar 1999), 8A1458
Uniaxial deformation of a random packing of particles, Arch Appl Mech **69**(3) 181-203 (Apr 1999), 11A1513

450J. Mechanical and physical properties of atomized liquids

General numerical model for liquid jet atomization applications, J Propulsion Power **14**(4) 581-584 (Jul-Aug 1998), 2A1425
Modeling the effect of unsteady chamber conditions on atomization processes, J Propulsion Power **14**(4) 576-579 (Jul-Aug 1998), 2A1426
Influence of atomizing gas molecular weight on low mass flowrate effervescent atomizer performance, J Fluids Eng **120**(4) 750-754 (Dec 1998), 3A1106
Atomization and breakup of cryogenic propellants under high-pressure subcritical and supercritical conditions, J Propulsion Power **14**(5) 835-842 (Sep-Oct 1998), 3A1410
Development and calibration of a low-flow version of the Marple-Miller impactor, Aerosol Sci Tech **29**(4) 307-314 (Oct 1998), 3A1411
Real-time liquid water mass measurement for airborne particulates, Aerosol Sci Tech **29**(6) 557-562 (Dec 1998), 4A1453
Direct droplet production from a liquid film: A new gas-assisted atomization mechanism, J Fluid Mech **375** 363-381 (Nov 1998), 5A1016
Study on hybrid airblast atomization, J Propulsion Power **15**(2) 241-247 (Mar-Apr 1999), 8A1459
Liquid jet atomization in a compressible gas stream, J Propulsion Power **15**(3) 369-376 (May-Jun 1999), 12A1498
Theoretical prediction of mean droplet size of Y-jet atomizers, J Propulsion Power **15**(3) 481-483 (May-Jun 1999), 12A1499

450Z. Experimental techniques

Portable high-throughput liquid-absorption air sampler for respirable aerosol particles, Aerosol Sci Tech **29**(2) 133-140 (Aug 1998), 1A1429
Application of global optimization to particle identification using light scattering, Inverse Prob **14**(4) 1053-1067 (Aug 1998), 2A1427
Acoustic contrast to distinguish between agglomerates of finely dispersed polymeric particles, J Acoust Soc Am **104**(4) 2189-2199 (Oct 1998), 3A1412
Analysis of operational filtration data - Part III: Re-entrainment and incomplete cleaning of dust cake, Aerosol Sci Tech **29**(3) 224-235 (Sep 1998), 3A1413
In-situ particulate sampling and characterization at the power systems development facility, Aerosol Sci Tech **29**(3) 170-182 (Sep 1998), 3A1414
New PM_{10} inlet design and evaluation, Aerosol Sci Tech **29**(4) 350-354 (Oct 1998), 3A1415
Single particle characterization of albuterol metered dose inhaler aerosol in near real-time, Aerosol Sci Tech **29**(4) 294-306 (Oct 1998), 3A1416
Field intercomparison of three cascade impactors, Aerosol Sci Tech **29**(6) 475-492 (Dec 1998), 4A1454
Light scattering for particle characterization, Prog Energy Combust Sci **25**(1) 1-53 (1999), 6A1453
Determination of phase-volume fractions from tomographic measurements in two-phase systems, Adv Water Resources **22**(6) 577-584 (Feb 1999), 8T1460
Determination of phase-volume fractions from tomographic measurements in two-phase systems, Adv Water Resources **22**(6) 577-584 (Feb 1999), 8T1460

452. POROUS MEDIA

452B. Fundamentals of fluid flow

Global weak solutions of a 3D flow model for a multi-species mixture in porous media, Math Methods Appl Sci **21**(11) 1035-1048 (Jul 1998), 1A1430
Investigation of the pressure behavior in a pultrusion die for fiberglass-epoxy composites, J Mat Processing Manuf Sci **6**(1) 27-37 (Jul 1997), 2A1428
Poro-Mechanics: A Tribute to Maurice A Biot (Balkema, Rotterdam, Netherlands, 1998) 3N30
Stokes flow through an array of staggered strips, Appl Sci Res **59**(1) 27-41 (1997), 3A1048
Approach to transport in heterogeneous porous media using the truncated temporal moment equations: Theory and numerical validation, Transport Porous Media **32**(2) 199-232 (Aug 1998), 3A1417
Automation simulations of dispersion in porous media, Transport Porous Media **32**(2) 187-198 (Aug 1998), 3A1418
Momentum jump condition at the boundary between a porous medium and a homogeneous fluid: Inertial effects, J Porous Media **1**(3) 201-217 (1998), 3A1419
Variational formulation for coupled physiochemical flows during finite deformations of charged porous media, Int J Solids Struct **35**(34-35) 4999-5019 (Dec 1998), 3A1420
Transport in chemically and mechanically heterogeneous porous media Part V: Two-equation model for solute transport with adsorption, Adv Water Resources **22**(1) 59-86 (Sep 1998), 3T1422
Analysis of crystal dissolution fronts in flows through porous media - Part 2: Incompatible boundary conditions, Adv Water Resources **22**(1) 1-16 (Sep 1998), 3A1423
Modeling the effect of fluid communication on velocities in anisotropic porous rocks, Int J Solids Struct **35**(34-35) 4685-4707 (Dec 1998), 3A1428
Numerical and theoretical study of a dual mesh method using finite volume schemes for two phase flow problems in porous media, Numer Math **80**(4) 601-639 (Oct 1998), 4A1108
Archie's law for a mathematical model of movement of a conducting liquid through a conducting porous medium, Appl Math Lett **11**(6) 135-138 (Nov 1998), 4A1455
Gas permeability of rigid fibrous refractory insulations, J Thermophys Heat Transfer **12**(4) 528-535 (Oct-Dec 1998), 4A1456
Miscible porous media displacements in the quarter five-spot configuration - Part 1: The homogeneous case, J Fluid Mech **371** 233-268 (Sep 1998), 4A1474
Miscible porous media displacements in the quarter five-spot configuration - Part 2: Effect of heterogeneities, J Fluid Mech **371** 269-299 (Sep 1998), 4A1475
Brine transport in porous media: Self-similar solutions, Adv Water Resources **22**(3) 285-297 (Nov 1998), 5T1440
Generation of realistic porous media by grains sedimentation, Transport Porous Media **33**(3) 257-278 (Dec 1998), 5A1441
Inertial and second grade effects on macroscopic equations for the flow of a fluid in a porous medium, Transport Porous Media **33**(3) 205-226 (Dec 1998), 5A1442
Inverse modeling techniques for determining hydraulic properties of coarse-textured porous media by transient outflow methods, Adv Water Resources **22**(3) 273-284 (Nov 1998), 5A1443
Modeling transient organic vapor transport in porous media with the dusty gas model, Adv Water Resources **22**(3) 247-256 (Nov 1998), 5T1444
Multifluid flow in bedded porous media: Laboratory experiments and numerical simulations, Adv Water Resources **22**(2) 169-183 (Oct 1998), 5T1446
Flow in unsaturated random porous media, nonlinear numerical analysis and comparison to analytical stochastic models, Adv Water Resources **22**(3) 257-272 (Nov 1998), 5A1448
Kinetics of elementary processes of pressure solution, Pure Appl Geophys **152**(4) 667-683 (Oct 1998), 6A1454
Microscopic motion of particles flowing through a porous medium, Phys Fluids **11**(1) 76-87 (Jan 1999), 6T1455
Quantifying the exchange rate between groundwater and small streams, J Hydraul Res **36**(6) 913-932 (1998), 6A1456
Travel time analysis of tracers and reactive solutes in the unsaturated zone, J Hydraul Res **36**(6) 979-1002 (1998), 6A1457
Bounds for heat transport in a porous layer, J Fluid Mech **376** 263-296 (Dec 1998), 6A1466
Two-phase modeling of deflagration-to-detonation transition in granular materials: A critical examination of modeling issues, Phys Fluids **11**(2) 378-402 (Feb 1999), 7T1019
Analytical solutions for solute transport in saturated porous media with semi-infinite or finite thickness, Adv Water Resources **22**(5) 507-519 (Jan 1999), 7A1508
Macroscopic cylindrical governing equations: Transport process in unsaturated porous media with a line heat source, Int J Energy Res **23**(2) 91-101 (Feb 1999), 7A1509
Permeability impact on the pressure rise in a pultrusion die, J Thermophys Heat Transfer **13**(1) 91-99 (Jan-Mar 1999), 7A1510
Radial displacement of a fluid annulus in a rotating Hele-Shaw cell, Phys Fluids **11**(4) 778-785 (Apr 1999), 8A1001
Analysis of a Darcy flow model with a dynamic pressure saturation relation, SIAM J Appl Math **59**(1) 318-346 (Sep 1998), 8A1461
New insights on steady, nonlinear flow in porous media, Eur J Mech B **18**(1) 131-145 (Jan-Feb 1999), 8A1462
Macroscopic equations for vapor transport in a multi-layered unsaturated zone, Adv Water Resources **22**(6) 611-622 (Feb 1999), 8A1464
Study of Dul'nev's model for the thermal and radiative properties of open-cellular porous materials, JSME Int J Ser B **40**(4) 577-582 (Nov 1997), 8A1472
Effect of mobility gradients on viscous instabilities in miscible flows in porous media, Phys Fluids **11**(3) 740-742 (Mar 1999), 8A1476
Micropolar Fluids: Theory and Applications (Birkhauser Boston, MA, 1998) 9N37
Macroscopic turbulence model for flow in a porous medium, J Fluids Eng **121**(2) 427-433 (Jun 1999), 9A1480
One-dimensional flow problem in porous media with hydrophile grains, Math Methods Appl Sci **22**(7) 605-617 (May 1999), 9A1481
Effecting averages and changes of scale via weighting functions, Arch Mech **50**(3) 531-539 (1998), 10A10
Flow of conductive fluids through poroelastic media with piezoelectric properties, J Theor Appl Mech **36**(3) 775-794 (1998), 10A1479
Modeling microbial transport and biodegradation in a dual-porosity system, Transport Porous Media **35**(1) 49-65 (Apr 1999), 10A1480
Multiscale network model for simulating moisture transfer properties of porous media, Transport Porous Media **35**(1) 67-88 (Apr 1999), 10A1481
Pore network analysis of resistivity index for water-wet porous media, Transport Porous Media **35**(1) 89-128 (Apr 1999), 10A1482
Porous media: Theory and experiments, Transport Porous Media **34**(1-3) 3-336 (Mar 1999), 10T1483
Some problems of liquid flow in porous media, J Theor Appl Mech **36**(3) 703-722 (1998), 10T1484
Theoretical appraisal of field-capacity based infiltration models and their scale parameters, Transport Porous Media **35**(1) 129-147 (Apr 1999), 10A1485
Transient stochastic analysis of biodegradable contaminant transport: First-order decay, Transport Porous Media **35**(1) 1-14 (Apr 1999), 10A1486
Foamy oil flow in porous media, Transport Porous Media **35**(2) 155-272 (May 1999), 10T1503
Global properties of flow in a heterogeneous isotropic porous medium, Mech Res Commun **26**(2) 161-166 (Mar-Apr 1999), 11T1514
Solute transport in divergent radial flow through heterogeneous porous media, J Fluid Mech **384** 159-182 (Apr 1999), 11A1515
Hydrodynamic and boundary-layer dispersion in bidisperse porous media, J Fluid Mech **385** 359-379 (Apr 1999), 11A1516
Numerical modeling of the distribution of radionuclides in porous media for strong damage to underground nuclear power station, Int J Heat Mass Transfer **42**(19) 3695-3705 (Oct 1999), 12A1436
Acoustic waves in channels with porous and permeable walls, Transport Porous Media **35**(3) 327-344 (Jun 1999), 12A1500
Development and validation of a numerical model of flow through embankment dams: Comparisons with experimental data and analytical solutions, Transport Porous Media **35**(3) 395-406 (Jun 1999), 12A1501
Filtration in cohesive soils: Mathematical model, Comput Assisted Mech Eng Sci **6**(1) 1-13 (1999), 12A1502
Flow singularities in a certain model of pore space, Arch Gornictwa **43**(3) 439-455 (1998), 12A1503
Flows in fissured media, Arch Gornictwa **43**(3) 457-469 (1998), 12A1504
Infiltration of liquid metals in porous compacts: Modeling of permeabilities during reactive melt infiltration, Transport Porous Media **36**(1) 43-68 (Jul 1999), 12A1505
Modeling the effects of a magnetic field or rotation on flow in a porous medium: Momentum equation and anisotropic permeability analogy, Int J Heat Mass Transfer **42**(19) 3715-3718 (Oct 1999), 12A1506
Modeling variable density flow and solute transport in porous medium - 1: Numerical model and verification, Transport Porous Media **35**(3) 345-373 (16n 1999), 12A1507
Modeling variable density flow and solute transport in porous medium - 2: Re-evaluation of the salt dome flow problem, Transport Porous Media **35**(3) 375-394 (Jun 1999), 12A1508
Moisture removal from a two-layer porous media: A conceptual model and experimental results, Transport Porous Media **36**(1) 23-42 (Jul 1999), 12A1509
Quasilinear based procedure for saturated-unsaturated water movement in soils, Transport Porous Media **36**(1) 1-21 (Jul 1999), 12A1510
Stochastic analysis of macrodispersion in a semi-confined aquifer, Transport Porous Media **35**(3) 273-297 (Jun 1999), 12A1511
Tree networks for flows in composite porous media, J Porous Media **2**(1) 1-18 (1999), 12A1512
Miscile porous media displacements in the quarter five-spot configuration - Part 3: Non-monotonic viscosity profiles, J Fluid Mech **388** 171-195 (Jun 1999), 12A1514
Theory to describe heat transfer during laminar incompressible flow of a fluid in periodic porous media, Phys Fluids **11**(7) 1738-1748 (Jul 1999), 12T1528

452C. Seepage (incl pollutants)

Study of flow and transport in fracture network using percolation theory, Appl Math Model **22**(4-5) 277-291 (Apr-May 1998), 1A1431
Coupling distinct and continuous medium model for flow analysis in a fractured rock mass and its application, J Hydrodyn **10**(2) 94-104 (1998), 2T1429
Field evidences and theoretical analysis of the gravity-driven wetting front instability of water runoffs on concrete structures, Heron **42**(4) 231-244 (1997), 2A1430
Numerical simulations of transport of non-ergodic solute plumes in heterogeneous aquifers, Stochastic Hydrology Hydraul **12**(2) 117-139 (Jul 1998), 2A1432
Transport in chemically and mechanically heterogeneous porous media IV: Large-scale mass equilibrium for solute transport with adsorption, Adv Water Resources **22**(1) 33-57 (Sep 1998), 3T1421
Transport in chemically and mechanically heterogeneous porous media Part V: Two-equation model for solute transport with adsorption, Adv Water Resources **22**(1) 59-86 (Sep 1998), 3T1422
Complex solution to nonideal contaminant transport through porous media, J Comput Phys **145**(2) 538-554 (Sep 1998), 3T1439
Inverse modeling techniques for determining hydraulic properties of coarse-textured porous media by transient outflow methods, Adv Water Resources **22**(3) 273-284 (Nov 1998), 5A1443
Modeling transient organic vapor transport in porous media with the dusty gas model, Adv Water Resources **22**(3) 247-256 (Nov 1998), 5T1444
Monitoring groundwater dynamics in the littoral zone at seasonal, storm, tide and swash frequencies, Coastal Eng **35**(1-2) 1-16 (Oct 1998), 5T1445
Multifluid flow in bedded porous media: Laboratory experiments and numerical simulations, Adv Water Resources **22**(2) 169-183 (Oct 1998), 5T1446
Scaling of flow and transport behavior in heterogeneous groundwater systems, Adv Water Resources **22**(3) 223-238 (Nov 1998), 5A1461
Transport of waste leakage in stratified formations, Adv Water Resources **22**(2) 159-168 (Oct 1998), 5A1534
Spreading and imbibition of viscous liquid on a porous base, Phys Fluids **11**(1) 48-57 (Jan 1999), 6A1176
Connection between the Lagrangian stochastic-convective and cumulant expansion approaches for describing solute transport in heterogeneous porous media, Adv Water Resources **22**(4) 319-332 (Dec 1998), 6A1458
Flow analysis by coupling dominant fracture and network fracture systems and its application (Chinese), J Tsinghua Univ Sci Tech **38**(12) 23-26 (Dec 1998), 6A1459
Geostatistically based inverse model for 3D variably saturated flow, Stochastic Hydrology Hydraul **12**(5) 285-298 (Nov 1998), 6A1460
Heat-induced moisture transport in the vicinity of a spherical heat source, Int J Numer Anal Methods Geomech **22**(12) 969-981 (Dec 1998), 6A1461
Heat transport in the unsaturated zone: Comparison of experimental results and numerical simulations, J Hydraul Res **36**(6) 933-962 (1998), 6A1468
Penetrative convection and multi-component diffusion in a porous medium, Adv Water Resources **22**(4) 399-412 (Dec 1998), 6A1470
Calculation and mesh generation of a 3D matrix fracture system, J Hydraul Res **36**(6) 867-883 (1998), 6T1478
Simulation of water flow and heat transfer in soils by means of a mixed FEM, Adv Water Resources **22**(5) 445-460 (Jan 1999), 7T30
Longitudinal flow past cylinders arranged in a triangular array, Appl Math Model **23**(3) 219-230 (Mar 1999), 7A962
Analytical solutions for solute transport in saturated porous media with semi-infinite or finite thickness, Adv Water Resources **22**(5) 507-519 (Jan 1999), 7A1508
Inverse modeling of a radial multistep outflow experiment for determining unsaturated hydraulic properties, Adv Water Resources **22**(5) 431-444 (Jan 1999), 7A1511
Transport with spatially variable kinetic sorption: Recursion formulation, Adv Water Resources **22**(5) 549-555 (Jan 1999), 7A1512
Mathematical model for heat and mass transfer in unsaturated wet porous media considering effect of capillary hysteresis, J Hydrodyn **10**(4) 37-44 (1998), 7T1530
Long-term simulation of water movement in soils using mass-conserving procedures, Adv Water Resources **22**(5) 419-430 (Jan 1999), 7T1537
Aspects of numerical modeling of groundwater solute transport (Polish), J Hydrology and Hydromech **47**(1) 26-47 (1999), 8T1463
Macroscopic equations for vapor transport in a multi-layered unsaturated zone, Adv Water Resources **22**(6) 611-622 (Feb 1999), 8A1464

Seepage refraction in a semicircular lens located at the boundary of two porous massifs, J Appl Math Mech **62**(5) 749-762 (1998), 8A1465
Three-dimensional physically consistent diffusion in ansiotropic media with memory, Rendiconti Lincei Matematica e Appl **IX**(2) 131-143 (1998), 8A1466
Transport of reactive tracers in rock fractures, J Fluid Mech **378** 335-356 (Jan 1999), 8A1467
Two-dimensional fractal model of sedimentary rock and the simulations of two-phase flow, J Huazhong Univ Sci Tech **26**(SII) 62-64 (Nov 1998), 9A1482
Multiphase media approach: A key to modeling in environmental mechanics: Description of solute transport phenomena in porous media, J Theor Appl Mech **36**(3) 639-656 (1998), 10A1595
Solute transport in divergent radial flow through heterogeneous porous media, J Fluid Mech **384** 159-182 (Apr 1999), 11A1515
Hydrodynamic and boundary-layer dispersion in bidisperse porous media, J Fluid Mech **385** 359-379 (Apr 1999), 11A1516
Semi-analytical model for the simulation of solute transport in a network of fractures having random orientations, Int J Numer Anal Methods Geomech **23**(4) 317-333 (Apr 1999), 11A1517
Temporal behavior of a solute cloud in a chemically heterogeneous porous medium, J Fluid Mech **386** 77-104 (May 1999), 11A1523
Evaluation of confidence intervals for a steady-state leaky aquifer model, Adv Water Resources **22**(8) 807-817 (Jun 1999), 12T1513
Miscile porous media displacements in the quarter five-spot configuration - Part 3: Non-monotonic viscosity profiles, J Fluid Mech **388** 171-195 (Jun 1999), 12A1514
Modeling surface runoff and infiltration of rain by an elliptic-parabolic equation coupled with a first-order equation on the boundary, Arch Rational Mech Anal **146**(2) 157-182 (1999), 12A1515
Development and application of a coupled-process parameter inversion model based on the maximum likelihood estimation method, Adv Water Resources **22**(8) 841-853 (Jun 1999), 12A1530

452D. Multiphase flow in porous solids

Finite propagation for a pseudoparabolic equation: Two-phase non-equilibrium flows in porous media, Nonlinear Anal **33**(6) 551-573 (Sep 1998), 1T1139
Coupled parallel flow through composite porous layers, Appl Math Comput **97**(2-3) 261-271 (Dec 1998), 2A1431
Analysis of crystal dissolution fronts in flows through porous media - Part 2: Incompatible boundary conditions, Adv Water Resources **22**(1) 1-16 (Sep 1998), 3A1423
Coarse scale models of two phase flow in heterogeneous reservoirs: Volume averaged equations and their relationship to existing upscaling techniques, Comput Geosci **2**(2) 73-92 (Aug 1998), 3A1424
Two-dimensional network simulator for two-phase flow in porous media, Transport Porous Media **32**(2) 163-186 (Aug 1998), 3A1425
Dynamic two-phase pore-scale model of imbibition, Transport Porous Media **32**(3) 299-327 (Sep 1998), 4A1457
Weakly nonlinear shear waves, J Fluid Mech **372** 71-91 (Oct 1998), 4A1458
Stochastic FE analysis for multiphase flow in heterogeneous porous media, Transport Porous Media **32**(3) 239-262 (Sep 1998), 4A1479
Displacement of NAPL lenses and plumes in a phreatic aquifer, Transport Porous Media **33**(3) 227-255 (Dec 1998), 5A1447
Flow in unsaturated random porous media, nonlinear numerical analysis and comparison to analytical stochastic models, Adv Water Resources **22**(3) 257-272 (Nov 1998), 5A1448
Admissible geometries in the study of steady plane flow of a dusty fluid through porous media, Appl Math Comput **100**(1) 85-92 (Apr 1999), 6A1462
Non-reactive gas-particulate models of flow through porous media, Appl Math Comput **100**(1) 93-102 (Apr 1999), 6A1463
Effective two-phase flow through highly heterogeneous porous media: Capillary nonequilibrium effects, Comput Geosci **2**(3) 191-215 (Dec 1998), 7A1513
Numerical methods for flow in a porous medium with internal boundaries, Comput Geosci **2**(3) 217-240 (Dec 1998), 7A1514
Numerical simulation of NAPL flow in the subsurface, Comput Geosci **2**(3) 171-189 (Dec 1998), 7A1515
Practical implementation of the fractional flow approach to multi-phase flow simulation, Adv Water Resources **22**(5) 461-478 (Jan 1999), 7T1516
Thermodynamics and constitutive theory for multiphase porous-media flow considering internal geometric constraints, Adv Water Resources **22**(5) 521-547 (Jan 1999), 7A1517
Experimental study of dynamic solid-liquid phase equilibrium in a porous medium, JSME Int J Ser B **41**(3) 590-600 (Aug 1998), 8T1079
Porous media: Theory and experiments, Transport Porous Media **34**(1-3) 3-336 (Mar 1999), 10T1483
Colmatage accompanying the flow of gasified liquid through porous media, J Theor Appl Mech **36**(3) 795-805 (1998), 10A1487
Continuum approach to two-phase porous media, Transport Porous Media **35**(1) 15-36 (Apr 1999), 10A1488
Determination of heat and moisture transport properties in wet porous media using the parameter estimation method, J Hydrodyn **11**(1) 97-102 (1999), 10T1489
Multiphase flow in heterogeneous porous media: A classical FEM versus an implicit pressure-explicit saturation-based mixed FE-finite volume approach, Int J Numer Methods Fluids **29**(8) 899-920 (Apr 1999), 10A1490
Evolution of microstructure in unstable porous media flow: A relaxational approach, Commun Pure Appl Math **52**(7) 873-915 (Jul 1999), 11A1518
Liquid metal infiltration and transfer heat behavior for particles reinforced metal matrix composites (Chinese), J Shanghai Jiaotong Univ **33**(2) 139-145 (Feb 1999), 11A1519
Estimates of barometric pumping of moisture through unsaturated fractured rock, Transport Porous Media **36**(1) 85-119 (Jul 1999), 12T1516
Dynamic transport phenomena in porous polymer materials under impulse thermal effects, Transport Porous Media **35**(3) 299-326 (Jun 1999), 12A1521

452E. Unsteady flow

Dispersion relation and eigenfunction expansions for water waves in a porous structure, J Eng Math **34**(3) 319-334 (Oct 1998), 4A994
Net flow of compressible viscous liquids induced by traveling waves in porous media, J Eng Math **34**(4) 435-450 (Nov 1998), 6A1464
Modeling of clogging in porous media and design for an artificial groundwater recharge (Japanese), Proc JSCE **610**(III45) 125-134 (Dec 1998), 7A1518
Numerical eigenvalue study of preconditioned non-equilibrium transport equations, Int J Numer Methods Fluids **29**(3) 343-361 (Feb 1999), 7A1538

452F. Fluidized beds

Flow and heat transfer characteristics inside packed and fluidized beds, J Heat Transfer **120**(3) 667-673 (Aug 1998), 1A1432
Mechanisms of bed material agglomeration in a petroleum coke-fired circulating fluidized bed boiler, J Energy Resources Tech **120**(3) 215-218 (Sep 1998), 1A1433
Experimental study on fluidized-bed start-up process with hot gas, Int J Energy Res **22**(11) 981-989 (Sep 1998), 3A1426
Problems and progress in hot-gas filtration for pressurized fluidized bed combustion and integrated gasification combined cycle, Aerosol Sci Tech **29**(3) 163-169 (Sep 1998), 3T1427
Effect of wall on void fraction of liquid-fluidized beds, Heat Transfer Japan Res **27**(7) 473-482 (1998), 5A1449
Estimation of bed expansions in a freely-bubbling 3D gas-fluidized bed, Int J Energy Res **22**(15) 1365-1380 (Dec 1998), 5A1450
Numerical computation of a circulating fluidized bed combustor, Int J Energy Res **22**(15) 1351-1364 (Dec 1998), 5A1451
Pressure drop and collection efficiency of cyclone and impact separators in a CFB, Int J Energy Res **23**(1) 51-60 (Jan 1999), 6A1465
Efficiency of interphase coupling algorithms in fluidized bed conditions, Comput Fluids **28**(3) 323-360 (Mar 1999), 7A1519
Heat transfer characteristics of mechanically-stimulated particle beds, Appl Thermal Eng **19**(1) 37-49 (Jan 1999), 7A1520
Near-wall hydrodynamics in a scale-model circulating fluidized bed, Int J Heat Mass Transfer **42**(8) 1389-1403 (Apr 1999), 7A1521
Three phase model of a batch fluidized bed, Heat and Mass Transfer Warme **34**(5) 405-412 (Feb 1999), 7A1522
Transient response of non-thermal equilibrium packed beds, Int J Eng Sci **37**(2) 179-188 (Jan 1999), 7A1523
Flow pattern and heat transfer in tube banks of a simulated fluidized-bed heat exchanger, JSME Int J Ser B **41**(3) 720-726 (Aug 1998), 8T1407
Study on the swirling flow field in the freeboard of a vortexing fluidized bed combustor, JSME Int J Ser B **41**(3) 538-545 (Aug 1998), 8A1429
Development of high efficiency refuse fired boiler applied in circulating fluidized bed combustion, JSME Int J Ser B **41**(3) 714-719 (Aug 1998), 8T1468
Foam control using a fluidized bed of hydrophobic particles, Int J Multiphase Flow **25**(1) 63-85 (Feb 1999), 9A1483
Relative importance of radicals on the N_2O and NO formation and destruction paths in a quartz CFBC, J Energy Resources Tech **121**(2) 131-136 (Jun 1999), 9A1484
Numerical simulation of resistivity changes caused by water infiltration, Acta Geophys Polonica **47**(1) 41-57 (1999), 10T1491
Fin heat transfer studies in the cyclone separator of a circulating fluidized bed, Heat Transfer Eng **20**(2) 28-34 (Apr-Jun 1999), 11A1520
Similarity of transport processes in fluidized beds, Int J Heat Mass Transfer **42**(20) 3887-3899 (Oct 1999), 12A1517

452G. Elastic behavior of fluid-filled solids

Flow rules for porous elastic plastic materials, Mech Res Commun **25**(4) 443-448 (Jul-Aug 1998), 1T1434
Poro-Mechanics: A Tribute to Maurice A Biot (Balkema, Rotterdam, Netherlands, 1998) 3N30
Effects of fixed charges on the stress-relaxation behavior of hydrated soft tissues in a confined compression problem, Int J Solids Struct **35**(34-35) 4945-4962 (Dec 1998), 3A502
Modeling the effect of fluid communication on velocities in anisotropic porous rocks, Int J Solids Struct **35**(34-35) 4685-4707 (Dec 1998), 3A1428
Phragmen-Lindelof theorem for porous elastic cylinders, Z Angew Math Mech **78**(8) 571-576 (1998), 3A1429
Thermodynamic structure and constitutive equations for fluid-saturated compressible and incompressible elastic porous solids, Int J Solids Struct **35**(34-35) 4557-4573 (Dec 1998), 3A1430
Three-dimensional displacement discontinuity solutions for fluid-saturated porous media, Int J Solids Struct **35**(34-35) 4887-4893 (Dec 1998), 3A1431
Uni-axial wave propagation and pore pressure generation in fluid saturated sands exhibiting irreversible compaction, Int J Numer Anal Methods Geomech **22**(9) 695-720 (Sep 1998), 3A1432
Calculation of bone pore water pressure due to mechanical loading, Int J Solids Struct **35**(34-35) 4981-4997 (Dec 1998), 3A1511
Gradient dependent model for strain localization analysis of porous media (Chinese), J Dalian Univ Tech **38**(5) 506-510 (Sep 1998), 4A1459
Constitutive equations of finite strain poroelasticity in the light of a micro-macro approach, Eur J Mech A **17**(6) 909-921 (Nov-Dec 1998), 5A1452
Boundary element method for analysis of contaminant transport in fractured and non-fractured porous media, Comput Geotech **23**(3) 165-181 (1998), 6A64
Strain localization in fluid-saturated anisotropic elastic-plastic porous media, Int J Eng Sci **37**(2) 235-251 (Jan 1999), 7A1524
Strain localization in fluid-saturated anisotropic elastic-plastic porous media with double porosity, J Mech Phys Solids **47**(3) 503-530 (Mar 1999), 8A1469
Electrokinetic and poroelastic coupling during finite deformations of charged porous media, J Appl Mech **66**(2) 323-333 (Jun 1999), 10A1492
Exact solutions for 2D time dependent flow and deformation within a poroelastic medium, J Appl Mech **66**(2) 536-540 (Jun 1999), 10A1493
Numerical methods for nonlinear coupled problems in porous media (Chinese), J Dalian Univ Tech **39**(2) 166-171 (Mar 1999), 10A1494
Fluid-structure interaction in the localization of saturated porous media, Z Angew Math Mech **79**(7) 481-484 (1999), 12A1518

452H. Dynamics of fluid-filled solids

Inhomogeneous plane waves, mechanical energy flux, and energy dissipation in a two-phase porous medium, Z Angew Math Mech **78**(9) 617-625 (1998), 3A224
Seismic signatures of permeability in heterogeneous porous media, Geophys **64**(1) 99-103 (Jan-Feb 1999), 7T1525
Vaporizing gravity currents in a superheated porous medium, J Fluid Mech **377** 151-168 (Dec 1998), 7A1526
Importance of flow condition on seismic waves at a saturated porous solid boundary, J Sound Vib **221**(3) 391-413 (Apr 1999), 9A1485
Geoenvironmental engineering, Comput Geotech **24**(1) 3-87 (1999), 9A1553
High-concentration-gradient dispersion in porous media: Experiments, analysis and approximations, Adv Water Resources **22**(7) 665-680 (Apr 1999), 10T1495

452I. Thermodynamics, heat transfer, and combustion

Transient heat transfer from a particle with arbitrary shape and motion, J Heat Transfer **120**(3) 674-681 (Aug 1998), 1A1287
Unsteady free convection flow over a vertical flat plate immersed in a porous medium, Fluid Dyn Res **23**(3) 153-160 (Sep 1998), 1A1302
Effects of sublimation-condensation region on heat and mass transfer during microwave freeze drying, J Heat Transfer **120**(3) 654-660 (Aug 1998), 1A1314
Effect of uniform suction-blowing on heat transfer of magnetohydrodynamic Hiemenz flow through porous media, Acta Mech **130**(3-4) 147-158 (1998), 3A1169
Conjugate heat and mass transfer in convective drying of porous media, Numer Heat Transfer A **34**(2) 105-117 (Aug 1998), 3A1254
Effect of thermal stratification on free convection in a fluid-saturated porous enclosure, Numer Heat Transfer A **34**(3) 343-356 (Aug 1998), 3A1256
Natural convection below a downward facing heated horizontal surface in a fluid-saturated porous medium, Numer Heat Transfer A **34**(3) 301-311 (Aug 1998), 3A1259
Convective and radiative internal heat transfer augmentation with fiber arrays, Int J Heat Mass Transfer **41**(22) 3431-3440 (Nov 1998), 3A1309
Flame localization inside axis-symmetric cylindrical and spherical porous media burners, Int J Heat Mass Transfer **41**(22) 3647-3655 (Nov 1998), 3A1381
Classification of 1D steady-state two-phase geothermal flows including permeability variations - I: Theory and special cases, Int J Heat Mass Transfer **41**(23) 3919-3935 (Dec 1998), 3A1433
Classification of 1D steady-state two-phase geothermal flows including permeability variations - II: The general case, Int J Heat Mass Transfer **41**(23) 3937-3948 (Dec 1998), 3A1434
Macroscopic equations of non-Newtonian fluid flow and heat transfer in a porous media, J Porous Media **1**(3) 273-283 (1998), 3A1435
Mixed convection adjacent to a suddenly heated horizontal circular cylinder embedded in a porous medium, Transport Porous Media **32**(3) 329-355 (Sep 1998), 4A1320
Experimental and theoretical studies of convective heat transfer in a cylindrical porous medium, Int J Heat Fluid Flow **19**(6) 629-635 (Dec 1998), 4A1329
Air isothermal flow through packed beds, Exp Thermal Fluid Sci **18**(2) 134-141 (Oct 1998), 4A1460
Computer modeling for geothermal systems: Predicting carbonate and silica scale formation, CO_2 breakout and H_2S exchange, Transport Porous Media **33**(1-2) 173-204 (Nov 1998), 4A1461
Convective boundary-layer flow on a reacting surface in a porous medium, Transport Porous Media **32**(3) 285-298 (Sep 1998), 4A1462
Estimation of temperatures in geothermal wells during circulation and shut-in in the presence of lost circulation, Transport Porous Media **33**(1-2) 103-127 (Nov 1998), 4A1463
Layered thermohaline convection in hypersaline geothermal systems, Transport Porous Media **33**(1-2) 29-63 (Nov 1998), 4A1464
Model for deep geothermal brines - I: T-p-X state-space description, Transport Porous Media **33**(1-2) 65-80 (Nov 1998), 4A1465
Model for deep geothermal brines - II: Thermodynamic properties - density, Transport Porous Media **33**(1-2) 129-154 (Nov 1998), 4A1466
Model for deep geothermal brines - III: Thermodynamic properties - enthalpy and viscosity, Transport Porous Media **33**(1-2) 155-171 (Nov 1998), 4A1467
Permeability changes during the evolution of a geothermal field due to the dissolution and precipitation of quartz, Transport Porous Media **33**(1-2) 81-101 (Nov 1998), 4A1468
Radiative effect on natural convection flows in porous media, Transport Porous Media **32**(3) 263-283 (Sep 1998), 4A1469
Simple model of a two-layered high-temperature liquid-dominated geothermal reservoir as a part of a large-scale hydrothermal convection system, Transport Porous Media **33**(1-2) 3-27 (Nov 1998), 4A1470
Analytical characterization and conceptual assessment of solid and fluid temperature differentials in porous media, Int J Heat Mass Transfer **42**(3) 423-435 (Feb 1999), 5A1219
Effect of radiation on free convection from a porous vertical plate, Int J Heat Mass Transfer **42**(1) 181-191 (Jan 1999), 5A1221
Effects of thermal dispersion and stratification on non-Darcy mixed convection from a vertical plate in a porous medium, Heat and Mass Transfer Warme **34**(2-3) 209-212 (Oct 1998), 5A1222
Forced convection of a power-law fluid in a porous channel: Numerical solutions, Heat and Mass Transfer Warme **34**(2-3) 221-228 (Oct 1998), 5A1223
Natural convection in a porous layer bounded by impervious domains: From numerical approaches to experimental realization, Int J Heat Mass Transfer **42**(4) 581-597 (Feb 1999), 5A1225
Transient analysis of incompressible flow through a packed bed, Int J Heat Mass Transfer **41**(24) 4259-4279 (Dec 1998), 5A1226

Coupled heat and mass transfer of a stagnation point flow in a heated porous bed with liquid film evaporation, Int J Heat Mass Transfer **42**(5) 861-872 (Mar 1999), 5A1252
Melting of a subcooled mixed powder bed with constant heat flux heating, Int J Heat Mass Transfer **42**(5) 775-788 (Mar 1999), 5A1267
Convective flows on reactive surfaces in porous media, Transport Porous Media **33**(3) 279-293 (Dec 1998), 5A1453
Double diffusive convection in dual-permeability, dual-porosity porous media, Int J Heat Mass Transfer **42**(3) 437-454 (Feb 1999), 5A1454
Effects of a random porosity model on heat transfer performance of porous media, Int J Heat Mass Transfer **42**(1) 13-25 (Jan 1999), 5A1455
Implications of the thermal equilibrium assumption for surrounding-driven steady conduction within a saturated porous medium layer, Int J Heat Mass Transfer **42**(3) 477-485 (Feb 1999), 5A1456
Nonsimilar solutions for mixed convection in non-Newtonian fluids along a vertical plate in a porous medium, Transport Porous Media **33**(3) 295-307 (Dec 1998), 5A1457
Numerical simulation of the baking of porous anode carbon in a vertical flue ring furnace, Numer Heat Transfer A **34**(6) 571-598 (Nov 1998), 5A1458
Physico-chemical processes occurring inside a degrading 2D anisotropic porous medium, Int J Heat Mass Transfer **41**(24) 4139-4150 (Dec 1998), 5A1459
Structure formation in porous materials produced by gravity-sensitive SHS, Combust Sci Tech **136**(1-6) 253-277 (Jul 1998), 5A1460
Numerical study of heat and mass transfer in an anisotropic porous enclosure due to constant heating and cooling, Numer Heat Transfer A **34**(8) 887-905 (Dec 1998), 6A1361
Bounds for heat transport in a porous layer, J Fluid Mech **376** 263-296 (Dec 1998), 6A1466
Coriolis effect on gravity-driven convection in a rotating porous layer heated from below, J Fluid Mech **376** 351-375 (Dec 1998), 6A1467
Heat transport in the unsaturated zone: Comparison of experimental results and numerical simulations, J Hydraul Res **36**(6) 933-962 (1998), 6A1468
Interrelation of deformation relaxational and heat-mass-exchange processes under drying of capillary-porous bodies (Russian), Prikl Mekh (Appl Mech) **34**(7) 101-107 (1998), 6A1469
Penetrative convection and multi-component diffusion in a porous medium, Adv Water Resources **22**(4) 399-412 (Dec 1998), 6A1470
Unifying framework for watershed thermodynamics: Balance equations for mass, momentum, energy and entropy, and the second law of thermodynamics, Adv Water Resources **22**(4) 367-398 (Dec 1998), 6T1471
Solar collectors with tubes partially filled with porous substrates, J Solar Energy Eng **121**(1) 20-24 (Feb 1999), 6A1538
Simulation of water flow and heat transfer in soils by means of a mixed FEM, Adv Water Resources **22**(5) 445-460 (Jan 1999), 7T30
Darcy-Brinkman free convection from a heated horizontal surface, Numer Heat Transfer A **35**(2) 191-204 (Feb 1999), 7A1270
Experimental study for natural convective heat and mass transfer in porous media, J Hydrodyn **10**(4) 90-99 (1998), 7T1271
Forced convection heat transfer augmentation in a channel with a localized heat source using fibrous materials, J Electron Packaging **121**(1) 1-7 (Mar 1999), 7A1272
Free convection in oblique enclosures filled with a porous medium, Int J Heat Mass Transfer **42**(6) 1047-1057 (Mar 1999), 7A1273
Natural convection from a vertical cylinder in a thermally stratified porous medium, Heat and Mass Transfer Warme **34**(5) 423-428 (Feb 1999), 7A1274
Numerical investigation of buoyancy driven flow in a fluid saturated non-Darcian porous medium, Int J Heat Mass Transfer **42**(7) 1205-1215 (Apr 1999), 7A1276
Numerical simulation of forced convection heat transfer in porous plate channels using thermal equilibrium and nonthermal equilibrium models, Numer Heat Transfer A **35**(1) 99-113 (Jan 1999), 7A1277
Vaporizing gravity currents in a superheated porous medium, J Fluid Mech **377** 151-168 (Dec 1998), 7A1526
Boiling liquid nitrogen heat transfer in channels with porous copper inserts, Int J Heat Mass Transfer **42**(7) 1189-1204 (Apr 1999), 7A1527
Enhanced cooling via boiling in porous layers: The effect of vapor channels, J Heat Transfer **121**(1) 205-210 (Feb 1999), 7A1528
Liquid and vapor flow in superheated rock, Annu Rev Fluid Mech **31** 171-199 (1999), 7A1529
Mathematical model for heat and mass transfer in unsaturated wet porous media considering effect of capillary hysteresis, J Hydrodyn **10**(4) 37-44 (1998), 7T1530
Modified effective thermal conductivity due to heat dispersion in fibrous porous media, Int J Heat Mass Transfer **42**(7) 1237-1254 (Apr 1999), 7A1531
Numerical determination of thermal dispersion coefficients using a periodic porous structure, J Heat Transfer **121**(1) 160-163 (Feb 1999), 7T1532
Mixed convection flow in a lid-driven enclosure filled with a fluid-saturated porous medium, Int J Heat Mass Transfer **42**(13) 2465-2481 (Jul 1999), 8A1302
Entropy generation in a rectangular packed duct with wall heat flux, Int J Heat Mass Transfer **42**(13) 2337-2344 (Jul 1999), 8A1322
Free convection boundary-layer flow along a vertical surface in a porous medium with Newtonian heating, Int J Heat Mass Transfer **42**(14) 2621-2627 (Jul 1999), 8A1323
Mixed convection in porous media between vertical concentric cylinders, Heat Transfer Asian Res **28**(2) 95-101 (1999), 8A1324
Pseudosteady-state natural convection inside spherical containers partially filled with a porous medium, Int J Heat Mass Transfer **42**(13) 2327-2336 (Jul 1999), 8A1325
Fractal geometry model for evaluating permeabilities of porous preforms used in liquid composite molding, Int J Heat Mass Transfer **42**(12) 2219-2232 (Jun 1999), 8A1346
Heat and mass transfer with phase change in a porous structure partially heated: Continuum model and pore network simulations, Int J Heat Mass Transfer **42**(14) 2557-2569 (Jul 1999), 8A1371
Double-diffusive convection in an annular vertical porous layer, Int J Heat Mass Transfer **42**(13) 2313-2325 (Jul 1999), 8A1401
Experimental analysis of unsteady heat and moisture transfer around a heated cylinder buried into a porous medium, Int J Heat Mass Transfer **42**(12) 2187-2198 (Jun 1999), 8A1402
Development of high efficiency refuse fired boiler applied in circulating fluidized bed combustion, JSME Int J Ser B **41**(3) 714-719 (Aug 1998), 8T1468
Effect of anisotropy on transport phenomena in anisotropic porous media, Int J Heat Mass Transfer **42**(14) 2673-2681 (Jul 1999), 8A1470
Rayleigh-Benard convection subject to time dependent wall temperature in a fluid-saturated porous layer, Fluid Dyn Res **24**(5) 293-308 (May 1999), 8A1471
Study of Dul'nev's model for the thermal and radiative properties of open-cellular porous materials, JSME Int J Ser B **40**(4) 577-582 (Nov 1997), 8A1472
Numerical prediction of the effective thermal conductivity of dendritic mushy zones, Model Simulation Mat Sci Eng **7**(1) 59-70 (Jan 1999), 9A1314
Heat transfer analysis of non-Darcian flow in local thermal non-equilibrium, J Chinese Soc Mech Eng **20**(1) 75-80 (Feb 1999), 9A1340
Theoretical study, with experimental verification, of the temperature-dependent viscosity effect on the forced convection through a porous medium channel, J Heat Transfer **121**(2) 500-503 (May 1999), 9T1341
Effective thermal conductivity of high porosity fibrous metal foams, J Heat Transfer **121**(2) 466-471 (May 1999), 9T1372
Hysteretic effects in the problems of artificial freezing, SIAM J Appl Math **59**(2) 387-410 (Nov 1998), 9A1376
Macroscopic turbulence model for flow in a porous medium, J Fluids Eng **121**(2) 427-433 (Jun 1999), 9A1480
Analytical study of fluid flow and heat transfer during forced convection in a composite channel partly filled with a Brinkman-Forchheimer porous medium, Flow Turbulence Combust **60**(2) 173-192 (1998), 9T1486
Multimode heat transfer in cyclic flow reversal combustion in a porous medium, Int J Energy Res **23**(3) 183-206 (Mar 1999), 9A1487
Natural convection and its fractal for liquid freezing in a vertical cavity filled with porous medium, Heat Transfer Asian Res **28**(3) 165-171 (1999), 10A1322
Analytical and numerical study of double-diffusive natural convection in a Brinkman porous layer (French), Int J Heat Mass Transfer **42**(15) 2991-3005 (Aug 1999), 10A1402
Porous media: Theory and experiments, Transport Porous Media **34**(1-3) 3-336 (Mar 1999), 10T1483
Drying processes in context of the theory of fluid saturated porous materials, J Theor Appl Mech **36**(3) 613-637 (1998), 10A1496
Effects of medium thermoelasticity on high Rayleigh number steady-state heat transfer and mineralization in deformable fluid-saturated porous media heated from below, Comput Methods Appl Mech Eng **173**(1-2) 41-54 (Apr 1999), 10A1497
Fluid effect on the effective attenuation coefficient of a fully saturated porous medium under laser radiation, Exp Heat Transfer **12**(2) 157-174 (Apr-Jun 1999), 10A1498
Thermodynamic automaton simulations of fluid flow and diffusion in porous media, Transport Porous Media **35**(1) 37-47 (Apr 1999), 10A1499
Onset of stationary and oscillatory convection in a titled porous cavity saturated with a binary fluid: Linear stability analysis, Phys Fluids **11**(6) 1346-1358 (Jun 1999), 11A1112
Comparative study of the Unified Finite Approach Exponential-Type Scheme and its application to natural convection in a porous cavity, Numer Heat Transfer B **35**(3) 347-367 (Apr-May 1999), 11A1380
Double-diffusive natural convection in a porous medium under constant heat and mass fluxes, Heat Transfer Asian Res **28**(4) 255-265 (1999), 11A1381
Natural convection and radiation heat transfer in a vertical porous layer with a hexagonal honeycomb core - Part 1: Numerical analysis, Heat Transfer Asian Res **28**(4) 278-294 (1999), 11A1382
Natural convection and radiation heat transfer in a vertical porous layer with a hexagonal honeycomb core - Part 2: Heat transfer experiment, Heat Transfer Asian Res **28**(4) 295-306 (1999), 11A1383
Onset of convection in a fluid-saturated rectangular box, bottom heated by constant flux, Phys Fluids **11**(6) 1673-1675 (Jun 1999), 11T1384
Liquid metal infiltration and transfer heat behavior for particles reinforced metal matrix composites (Chinese), J Shanghai Jiaotong Univ **33**(2) 139-145 (Feb 1999), 11A1519
Electrochemical experimental method for natural convective heat and mass transfer in porous media, Heat Transfer Asian Res **28**(4) 266-277 (1999), 11A1521
Enhancement of heat and mass transfer in metal hydride beds with the addition of Al plates, Heat and Mass Transfer Warme **34**(6) 517-523 (Apr 1999), 11A1522
Temporal behavior of a solute cloud in a chemically heterogeneous porous medium, J Fluid Mech **386** 77-104 (May 1999), 11A1523
Rayleigh-Benard stability of a solidifying porous medium, Int J Heat Mass Transfer **42**(17) 3337-3350 (Sep 1999), 12A1311
Boundary layer flows in a vertical porous enclosure induced by opposing buoyancy forces, Int J Heat Mass Transfer **42**(19) 3599-3608 (Oct 1999), 12A1327
Free convective boundary layer flow from a heated surface in a layered porous medium, J Porous Media **2**(1) 39-58 (1999), 12A1329
Improving the performance of double-pipe heat exchangers by using porous substrates, Int J Heat Mass Transfer **42**(19) 3609-3618 (Oct 1999), 12A1330
Local thermal nonequilibrium effects in forced convection in a porous medium channel: A conjugate problem, Int J Heat Mass Transfer **42**(17) 3245-3252 (Sep 1999), 12A1331
Mixed convection in a horizontal porous duct with a sudden expansion and local heating from below, J Heat Transfer **121**(3) 653-661 (Aug 1999), 12A1332
Natural convection due to heat and mass transfer in a composite system, Heat and Mass Transfer Warme **35**(1) 39-48 (May 1999), 12A1333
Packing size and shape effects on forced convection in large rectangular packed ducts with asymmetric heating, Int J Heat Mass Transfer **42**(17) 3267-3277 (Sep 1999), 12A1334
Transient cool-down of a porous medium in pulsating flow, Int J Heat Mass Transfer **42**(18) 3523-3527 (Sep 1999), 12A1335
Uniform transpiration effect on combined heat and mass transfer by natural convection over a cone in saturated porous media: Uniform wall temperature-concentration or heat-mass flux, Int J Heat Mass Transfer **42**(18) 3533-3537 (Sep 1999), 12T1336
Closure model for transient heat conduction in porous media, J Heat Transfer **121**(3) 733-739 (Aug 1999), 12A1370
Transport in diffusion-substitution systems, Heat and Mass Transfer Warme **35**(1) 49-52 (May 1999), 12A1432
Variations of buoyancy-induced mass flux from single-phase to two-phase flow in a vertical porous tube with constant heat flux, J Heat Transfer **121**(3) 646-652 (Aug 1999), 12A1437
Computational recovery of the homoclinic orbit in porous media convection, Int J Non-Linear Mech **34**(6) 1071-1075 (Nov 1999), 12A1519
Departure from local thermal equilibrium in porous media due to a rapidly changing heat source: The Sparrow number, Int J Heat Mass Transfer **42**(18) 3373-3385 (Sep 1999), 12A1520
Dynamic transport phenomena in porous polymer materials under impulse thermal effects, Transport Porous Media **35**(3) 299-326 (Jun 1999), 12A1521
Effective stagnant thermal conductivity of porous media with periodic structures, J Porous Media **2**(1) 19-38 (1999), 12A1522
Effects of anisotropy and boundary plates on the critical values of a porous medium heated from below, Int J Heat Mass Transfer **42**(18) 3419-3430 (Sep 1999), 12A1523
Finite element analysis of convection flow through a porous medium in a horizontal channel, Transport Porous Media **36**(1) 69-83 (Jul 1999), 12A1524
Mechanism and mathematical model of heat and mass transfer during convective drying of porous materials, Heat Transfer Asian Res **28**(5) 337-351 (1999), 12A1525
Oberbeck convection flow of a couple stress fluid through a vertical porous stratum, Int J Non-Linear Mech **34**(6) 1037-1045 (Nov 1999), 12A1526
Rapid filtration combustion waves driven by convection, Combust Sci Tech **140**(1-6) 259-293 (Nov 1998), 12A1527
Theory to describe heat transfer during laminar incompressible flow of a fluid in periodic porous media, Phys Fluids **11**(7) 1738-1748 (Jul 1999), 12T1528

452K. Reservoir engineering

Coupling distinct and continuous medium model for flow analysis in a fractured rock mass and its application, J Hydrodyn **10**(2) 94-104 (1998), 2T1429
Numerical simulations of transport of non-ergodic solute plumes in heterogeneous aquifers, Stochastic Hydrology Hydraul **12**(2) 117-139 (Jul 1998), 2A1432
Upscaling method for one-phase flow in heterogeneous reservoirs: A weighted output least squares approach, Comput Geosci **2**(2) 93-123 (Aug 1998), 3A1436
Reduction of uncertainties in characterization of reservoirs using stochastic simulation and production history adjustment (Spanish), J Brazilian Soc Mech Sci **20**(3) 381-389 (Sep 1998), 4A1471
Scaling of flow and transport behavior in heterogeneous groundwater systems, Adv Water Resources **22**(3) 223-238 (Nov 1998), 5A1461
Stochastic differential dynamic programming for multi-reservoir system control, Stochastic Hydrology Hydraul **12**(4) 247-266 (Oct 1998), 5A1462
Geostatistically based inverse model for 3D variably saturated flow, Stochastic Hydrology Hydraul **12**(5) 285-298 (Nov 1998), 6A1460
Method to estimate peak flow reduction in reservoirs (Spanish), Ingenieria Hidraul Mex **14**(1) 61-76 (Jan-Apr 1999), 6T1472
Transmissivity identification through multi-directional aquifer stimulation, Stochastic Hydrology Hydraul **12**(5) 299-316 (Nov 1998), 6T1473
Analysis of continuous and pulsed pumping of a phreatic aquifer, Adv Water Resources **22**(6) 623-632 (Feb 1999), 8T1473
Periodic forcing in composite aquifers, Adv Water Resources **22**(6) 645-656 (Feb 1999), 8T1474
Two-dimensional numerical modeling of flushing processes in water reservoirs, J Hydraul Res **37**(1) 3-16 (1999), 8T1475
Finite element discretizations of elliptic problems in the presence of arbitrarily small ellipticity: An error analysis, SIAM J Numer Anal **36**(2) 368-392 (Jan 1999), 9A17
Finite element analysis for a finite conductivity fracture in an infinite poroelastic medium, Int J Numer Anal Methods Geomech **23**(3) 187-215 (Mar 1999), 9A1488
Mathematical analysis for reservoir models, SIAM J Math Anal **30**(2) 431-453 (Nov 1998), 9A1489
Oncomelania's eco-hydraulic property and its utilization, J Hydrodyn **11**(1) 33-40 (1999), 10A1116
Adaptive-grid simulation of groundwater flow in heterogeneous aquifers, Adv Water Resources **22**(7) 681-696 (Apr 1999), 10A1500
Analysis of a preconditioner for the discretized pressure equation arising in reservoir simulation, IMA J Numer Anal **19**(2) 291-316 (Apr 1999), 10A1501
Elastoplastic subsidence models with and without capillary effects, Comput Methods Appl Mech Eng **171**(3-4) 491-502 (Apr 1999), 10A1502
Foamy oil flow in porous media, Transport Porous Media **35**(2) 155-272 (May 1999), 10T1503
Streamline-oriented grid generation for transport modeling in 2D domains including wells, Adv Water Resources **22**(7) 697-710 (Apr 1999), 10T1504
Changes in water table induced by transient boundary condition and space dependent recharge, Adv Eng Software **30**(8) 551-556 (Aug 1999), 11A1524
Practical hints on the immediate lowering of ground water level (Polish), Inzynieria Budownictwo **54**(11) 638-643 (1998), 11T1525
Evaluation of confidence intervals for a steady-state leaky aquifer model, Adv Water Resources **22**(8) 807-817 (Jun 1999), 12T1513
Application of an automatic differentiation tool in the development of a compositional reservoir simulator, Commun Numer Methods Eng **15**(6) 423-434 (Jun 1999), 12A1529
Development and application of a coupled-process parameter inversion model based on the maximum likelihood estimation method, Adv Water Resources **22**(8) 841-853 (Jun 1999), 12A1530
Environment impact assessment and schemes optimization of reservoir project with multi-objective mixed system (Chinese), J Dalian Univ Tech **39**(3) 451-454 (May 1999), 12A1531

452L. Flow stability

Double-diffusive convection instability in a vertical porous enclosure, J Fluid Mech **368** 263-289 (Aug 1998), 3A1437

Effect of mobility gradients on viscous instabilities in miscible flows in porous media, Phys Fluids **11**(3) 740-742 (Mar 1999), 8A1476

452M. Non-Newtonian fluids

Forced convection of a power-law fluid in a porous channel: Integral solutions, J Porous Media **2**(1) 59-70 (1999), 12A1328

452Y. Computational techniques

Boundary element method for the determination of the transmissivity of a heterogeneous aquifer in groundwater flow systems, Eng Anal Boundary Elements **21**(3) 223-234 (Apr 1998), 1A1435
Contaminant transport under variable density flow in fractured porous media, Int J Numer Anal Methods Geomech **22**(7) 575-595 (Jul 1998), 1A1436
Enhancing the accuracy of the solution to unsaturated flow by a Hermitian Green element model, Adv Eng Software **29**(2) 113-118 (Mar 1998), 1A1437
Initial trace of a solution of a porous medium equation with bounded measurable coefficients, Nonlinear Anal **33**(6) 657-673 (Sep 1998), 1T1438
Inverse problem from 2D ground-water modeling, Inverse Prob **14**(4) 835-851 (Aug 1998), 2A1433
Mixed displacement-pressure formulation for poroelastic materials, J Acoust Soc Am **104**(3-PT1) 1444-1452 (Sep 1998), 2A1434
Adaptive FE simulation of Stokes flow in porous media, Adv Water Resources **22**(1) 17-31 (Sep 1998), 3T42
Approach to transport in heterogeneous porous media using the truncated temporal moment equations: Theory and numerical validation, Transport Porous Media **32**(2) 199-232 (Aug 1998), 3A1417
Coarse scale models of two phase flow in heterogeneous reservoirs: Volume averaged equations and their relationship to existing upscaling techniques, Comput Geosci **2**(2) 73-92 (Aug 1998), 3A1424
Upscaling method for one-phase flow in heterogeneous reservoirs: A weighted output least squares approach, Comput Geosci **2**(2) 93-123 (Aug 1998), 3A1436
Brine transport in porous media: On the use of Von Mises and similarity transformations, Comput Geosci **2**(2) 125-149 (Aug 1998), 3A1438
Complex solution to nonideal contaminant transport through porous media, J Comput Phys **145**(2) 538-554 (Sep 1998), 3T1439
Estimation of co-conditional moments of transmissivity, hydraulic head, and velocity fields, Adv Water Resources **22**(1) 87-95 (Sep 1998), 3A1440
Lattice-gas simulations of two-phase flow in porous media, Commun Numer Methods Eng **14**(8) 709-717 (Aug 1998), 3A1441
Mixed covolume methods for elliptic problems on triangular grids, SIAM J Numer Anal **35**(5) 1850-1861 (Oct 1998), 3A1442
Simulating reactive chemical transport with dominating precipitated species controlling chemical equilibrium, Comput Geosci **2**(2) 151-170 (Aug 1998), 3A1443
Simulation of miscible displacement in porous media by a modified Uzawa's algorithm combined with a characteristic method, Comput Methods Appl Mech Eng **162**(1-4) 359-368 (Aug 1998), 3A1444
Unified mesh refinement method with applications to porous media flow, Int J Numer Methods Fluids **28**(4) 679-702 (Sep 1998), 3A1445
Fast-secant algorithms for the nonlinear Richards equation, Commun Numer Methods Eng **14**(10) 921-930 (Oct 1998), 4A1472
Finite element modeling of temperature gradient driven rock alteration and mineralization in porous rock masses, Comput Methods Appl Mech Eng **165**(1-4) 175-187 (Nov 1998), 4A1473
Miscible porous media displacements in the quarter five-spot configuration - Part 1: The homogeneous case, J Fluid Mech **371** 233-268 (Sep 1998), 4A1474
Miscible porous media displacements in the quarter five-spot configuration - Part 2: Effect of heterogeneities, J Fluid Mech **371** 269-299 (Sep 1998), 4A1475
Multi-frontal parallel algorithm for coupled thermo-hydromechanical analysis of deforming porous media, Int J Numer Methods Eng **43**(6) 1069-1083 (Nov 1998), 4A1476
New semi-implicit time stepping procedure for buoyancy driven flow in a fluid saturated porous medium, Comput Methods Appl Mech Eng **165**(1-4) 147-154 (Nov 1998), 4A1477
New unconditionally stable staggered solution procedures for coupled soil-pore fluid dynamic problems, Int J Numer Methods Eng **43**(6) 1029-1052 (Nov 1998), 4A1478
Stochastic FE analysis for multiphase flow in heterogeneous porous media, Transport Porous Media **32**(3) 239-262 (Sep 1998), 4A1479
Flow in unsaturated random porous media, nonlinear numerical analysis and comparison to analytical stochastic models, Adv Water Resources **22**(3) 257-272 (Nov 1998), 5A1448
Application of artificial neural network and genetic algorithm in flow and transport simulations, Adv Water Resources **22**(2) 145-158 (Oct 1998), 5T1463
Efficient probabilistic FEM for stochastic groundwater flow, Adv Water Resources **22**(2) 185-195 (Oct 1998), 5A1464
N-dynamics model for predicting N-behavior subject to environmentally friendly fertilization practices - II: Numerical model and model validation, Transport Porous Media **33**(3) 309-324 (Dec 1998), 5A1465
Approximate analytical solution for seepage flow with fractional derivatives in porous media, Comput Methods Appl Mech Eng **167**(1-2) 57-68 (Dec 1998), 6A1474
Effects of chemical reactions on iterative methods for implicit time stepping, Adv Water Resources **22**(4) 333-347 (Dec 1998), 6T1475
Mathematical analysis and optimization of infiltration processes, J Sci Comput **13**(3) 303-321 (Sep 1998), 6A1476
Numerical methods for flow in a porous medium with internal boundaries, Comput Geosci **2**(3) 217-240 (Dec 1998), 7A1514
Efficiency of interphase coupling algorithms in fluidized bed conditions, Comput Fluids **28**(3) 323-360 (Mar 1999), 7A1519
Dual Reciprocity Method Multi-Domain decomposition approach for the numerical solution of gas flow in porous media, with application to landfill, Eng Anal Boundary Elements **23**(2) 175-188 (Feb 1999), 7A1533
Estimation of relative permeabilities in three-phase flow in porous media, Inverse Prob **15**(1) 33-39 (Feb 1999), 7A1534
Finite element multigrid methods for two-phase immiscible flow in heterogeneous media, Commun Numer Methods Eng **15**(1) 1-7 (Jan 1999), 7A1535
Identification of the diffusion coefficient for a semilinear hyperbolic-parabolic problem with discontinuous nonlinear terms, Comput Geosci **2**(3) 241-258 (Dec 1998), 7A1536
Long-term simulation of water movement in soils using mass-conserving procedures, Adv Water Resources **22**(5) 419-430 (Jan 1999), 7T1537
Numerical eigenvalue study of preconditioned non-equilibrium transport equations, Int J Numer Methods Fluids **29**(3) 343-361 (Feb 1999), 7A1538
Numerical modeling of coupled flow and deformation in fractured rock specimens, Int J Numer Anal Methods Geomech **23**(2) 141-160 (Feb 1999), 7A1539
Characteristic-conservative model for Darcian advection, Adv Water Resources **22**(6) 597-609 (Feb 1999), 8T1477
New approach for numerical identification of conductivity, Appl Math Comput **100**(2-3) 265-283 (May 1999), 8A1478
Numerical implementation of space-transformation approach for solving the 3D flow equation, SIAM J Sci Comput **20**(2) 619-647 (Sep 1998), 9T1490
Influence of dimensionless parameter orders of magnitude on the homogenization process result, J Theor Appl Mech **36**(3) 535-560 (1998), 10A98
Multiphase flow in heterogeneous porous media: A classical FEM versus an implicit pressure-explicit saturation-based mixed FE-finite volume approach, Int J Numer Methods Fluids **29**(8) 899-920 (Apr 1999), 10A1490
Computational aspects of saturated porous media undergoing large deformations, J Theor Appl Mech **36**(3) 744-757 (1998), 10A1505
Consolidation of a porous multilayered subsoil undergoing large deformation, J Theor Appl Mech **36**(3) 759-773 (1998), 10A1506
Temperature and moisture distributions in a moist spherical capillary-porous body: A new approach, Int J Numer Methods Eng **45**(2) 125-146 (May 1999), 10A1507
Efficient solution for matrix-fracture flow with multiple interacting continua, Int J Numer Anal Methods Geomech **23**(5) 427-438 (Apr 1999), 11A1526
Interface conditions for Biot's equations of poroelasticity, J Acoust Soc Am **105**(5) 2585-2589 (May 1999), 11A1527
Oberbeck convection flow of a couple stress fluid through a vertical porous stratum, Int J Non-Linear Mech **34**(6) 1037-1045 (Nov 1999), 12A1526
Conditional statistical inverse modeling in groundwater flow by multigrid methods, Comput Geosci **3**(1) 49-68 (Apr 1999), 12A1532
Filtration in cohesive soils: Numerical approach, Comput Assisted Mech Eng Sci **6**(1) 15-26 (1999), 12A1533
A priori L^p error estimates for Galerkin approximations to porous medium and fast diffusion equations, Math Comput **68**(227) 971-989 (Jul 1999), 12T1534

452Z. Experimental techniques

Determination of strength of solid porous body, Acta Phys Polonica A **93**(S) 71-78 (1998), 2T1435
Instability of Taylor vortex and nonaxisymmetric modes in flow between rotating porous cylinders, J Fluids Eng **120**(4) 745-749 (Dec 1998), 3A1055
Theoretical aspects of the estimation of pore and mass fractal dimensions of porous media on the macroscopic scale using NMR imaging, Chaos Solitons Fractals **9**(9) 1519-1527 (Sep 1998), 4A1480
Permeability relation with other petrophysical parameters for periodic porous media, Geophys **64**(2) 470-478 (Mar-Apr 1999), 10A1508
Semi-analytical procedure for estimating relative permeability from displacement experiments: Account for pre-breakthrough data, Int J Eng Sci **37**(8) 1051-1067 (Jun 1999), 11A1528

454. GEOMECHANICS

454B. Geomorphology

Deep geoelectrical structure estimation in the West Antarctic, Acta Geophys Polonica **46**(1) 60-67 (1998), 1T1439
Fractal generation of surface area of porous media, Stochastic Hydrology Hydraul **12**(2) 83-96 (Jul 1998), 2T1436
Long nonlinear surface and internal gravity waves in a rotating ocean, Surveys Geophys **19**(4) 289-338 (1998), 6A1477
Geomagnetic field variations as determined from Bulgarian archaeomagnetic data - Part II: The last 8,000 years, Surveys Geophys **19**(5) 431-460 (1998), 7A1540
Tides and earth rotation, Surveys Geophys **19**(5) 417-430 (1998), 7A1576
Microtremor measurements used to map thickness of soft sediments, Bull Seismol Soc Am **89**(1) 250-259 (Feb 1999), 8A1489
Influence of medium on the electrical resistance of granites from Uzbekistan subject to high temperatures, Acta Geophys Polonica **46**(3) 366-374 (1998), 10T1509
Influence of percolation on electric resistivity of bedrocks beneath the Czorsztyn-Niedzica Dam, Acta Geophys Polonica **47**(1) 27-39 (1999), 10T1510
'Neutron flux and axial moments in three-region cylindrical geometry applied for neutron log calibration - Part I: Theoretical description, Acta Geophys Polonica **46**(4) 427-447 (1998), 10A1511
Phonon thermal conductivity of geomaterials: Relationship to the density and mean atomic weight, Acta Geophys Polonica **46**(4) 415-425 (1998), 10T1512
Time-periodic quasigeostrophic motion under dissipation and forcing, Appl Math Comput **102**(2-3) 121-127 (Jul 1999), 10A1513
Seismic structure of the crust-mantle transition zone of the Ukrainian shield, Acta Geophys Polonica **47**(2) 185-201 (1999), 11T1529

454C. Tectonics

Neotectonic crustal uplift on the continents and its possible mechanisms: The case of Southern Africa, Surveys Geophys **19**(5) 369-415 (1998), 7T1541
Slip movements along interacting faults - Part II: 3D model, Acta Geophys Polonica **46**(2) 127-134 (1998), 10A1514
Splitting stress motion equation into seismic wave and fault-related fields, Acta Geophys Polonica **47**(2) 135-147 (1999), 11A1530

454D. Seismology

Dislocation field evolution and dislocation source-sink function, Acta Geophys Polonica **46**(1) 13-33 (1998), 1A9
Slip movements along interacting faults - Part I: 2D model, Acta Geophys Polonica **46**(1) 1-12 (1998), 1A1440
Transmission and detection of guided seismic waves in attenuating media, Geophys **63**(4) 1190-1199 (Jul-Aug 1998), 1A1441
Monte Carlo studies of relations between fractal dimensions in monofractal data sets, Pure Appl Geophys **152**(2) 213-220 (Jul 1998), 2A1437
M_L scale in Eastern North America, Bull Seismol Soc Am **88**(4) 935-951 (Aug 1998), 2T1438
Self-consistent retrieval of source parameters using mantle waves, Bull Seismol Soc Am **88**(4) 995-1002 (Aug 1998), 2A1459
Polarization, phase velocity, and NMO velocity of qP-waves in arbitrary weakly anisotropic media, Geophys **63**(5) 1754-1766 (Sep-Oct 1998), 3A218
Effects of attenuation and anisotropy on reflection amplitude versus offset, Geophys **63**(5) 1652-1658 (Sep-Oct 1998), 3A1446
Nonhyperbolic reflection moveout for horizontal transverse isotropy, Geophys **63**(5) 1738-1753 (Sep-Oct 1998), 3A1447
Seismic Wave Propagation and Scattering in the Heterogeneous Earth (Springer-Verlag, New York, 1998) 4R35
Influence of viscous coupling on seismic reflection and transmission in saturated porous media, Bull Seismol Soc Am **88**(5) 1289-1299 (Oct 1998), 4A1481
Using safety inspection data to estimate shaking intensity for the 1994 Northridge earthquake, Bull Seismol Soc Am **88**(5) 1243-1253 (Oct 1998), 4A1482
Implications of a composite source model and seismic-wave attenuation for the observed simplicity of small earthquakes and reported duration of earthquake initiation phase, Bull Seismol Soc Am **88**(5) 1171-1181 (Oct 1998), 4T1492
Modeling a shock wave source for seismic well survey, Shock Waves **8**(5) 257-265 (Oct 1998), 5T1466
Moment tensor solutions of the 1994 to 1996 double spring flat, Nevada, earthquake sequence and implications for local tectonic models, Bull Seismol Soc Am **88**(6) 1363-1378 (Dec 1998), 6A1511
Joint inversion of P- and PS-waves in orthorhombic media: Theory and a physical modeling study, Geophys **64**(1) 146-161 (Jan-Feb 1999), 7A1542
Q of the Earth: Global, regional, and laboratory studies, Pure Appl Geophys **153**(2-4) 239-731 (Dec 1998), 7T1543
Deconvolution of teleseismic body waves for enhancing structure beneath a seismometer array, Bull Seismol Soc Am **89**(1) 190-201 (Feb 1999), 8A1479
High-frequency attenuation in the crust and upper mantle of the Northern Tien Shan, Bull Seismol Soc Am **89**(1) 215-238 (Feb 1999), 8T1480
Nature of narrow-band signals at 2.083 Hz, Bull Seismol Soc Am **89**(1) 156-164 (Feb 1999), 8A1481
Semi-empirical method for simulating strong ground motions based on variable-slip rupture models for large earthquakes, Bull Seismol Soc Am **89**(1) 36-53 (Feb 1999), 8A1482
Three-dimensional elastic finite-difference modeling of seismic motion using staggered grids with non-uniform spacing, Bull Seismol Soc Am **89**(1) 54-68 (Feb 1999), 8A1483
Velocity structure of the upper crust under the San Francisco volcanic field, Arizona, Bull Seismol Soc Am **89**(1) 239-249 (Feb 1999), 8T1484
Deaggregation of probabilistic ground motions in the central and eastern United States, Bull Seismol Soc Am **89**(1) 1-13 (Feb 1999), 8A1492
Seismic coupling of interface modes in sedimentary basins: A recipe for disaster, Bull Seismol Soc Am **89**(1) 14-21 (Feb 1999), 8A1495
Amplitude variation with offset detectability against tuning and stretching artifacts, Geophys **64**(2) 494-503 (Mar-Apr 1999), 10A1515
Estimating shear-wave velocities from P-wave and converted-wave data, Geophys **64**(2) 504-507 (Mar-Apr 1999), 10A1516
Frequency-dependent shear-wave splitting in thinly layered media with intrinsic anisotropy, Geophys **64**(2) 604-608 (Mar-Apr 1999), 10A1517
Influence of source radiation patterns on globally observed short-period magnitude estimates (m_b), Bull Seismol Soc Am **89**(2) 342-347 (Apr 1999), 10A1518
Micromorphic continuum, rotational wave and fractal properties of earthquakes and faults, Acta Geophys Polonica **46**(3) 277-294 (1998), 10A1519
Seismic diffracted waves from topography using 3D discrete wavenumber-boundary integral equation simulation, Geophys **64**(2) 572-578 (Mar-Apr 1999), 10A1520
Seismic transmission tomography a configurative approach, Acta Geophys Polonica **46**(4) 388-409 (1998), 10A1521
Methodology for using precarious rocks in Nevada to test seismic hazard models, Bull Seismol Soc Am **89**(2) 456-467 (Apr 1999), 10A1559
Discrimination information in phase amplitude thresholds with application to western China regional data, Bull Seismol Soc Am **89**(3) 648-656 (Jun 1999), 11A1531
Seismic source summary for Soviet peaceful nuclear explosions, Bull Seismol Soc Am **89**(3) 640-647 (Jun 1999), 11A1563
Earthquake Engineering (Balkema, Rotterdam, Netherlands, 1998) 12N36
Static friction threshold effects on hysteresis and frequency spectra in rocks, J Acoust Soc Am **105**(6) 3097-3107 (Jun 1999), 12A1535

454E. Earthquake prediction

Thermodynamics of line defects and transient electric current: Electromagnetic field generation in earthquake preparation zone, Acta Geophys Polonica **46**(1) 35-54 (1998), 1A1442

Cause of ground stress tensile pulses observed before the 1976 Tangshan earthquake, Bull Seismol Soc Am **88**(4) 989-994 (Aug 1998), 2A1439
Dip range for intracontinental reverse fault ruptures: Truth not stranger than friction, Bull Seismol Soc Am **88**(4) 1014-1022 (Aug 1998), 2A1440
Nonstationary Bayesian kriging: A predictive technique to generate spatial corrections for seismic detection, location, and identification, Bull Seismol Soc Am **88**(5) 1275-1288 (Oct 1998), 4A1483
Quick and reliable determination of magnitude for seismic early warning, Bull Seismol Soc Am **88**(5) 1254-1259 (Oct 1998), 4A1484
Regionalized versus single-station wave-guide effects on seismic discriminants in western China, Bull Seismol Soc Am **88**(5) 1260-1274 (Oct 1998), 4A1495
Ground-motion amplification in the Santa Monica area: Effects of shallow basin-edge structure, Bull Seismol Soc Am **88**(5) 1224-1242 (Oct 1998), 4A1496
Seismic-reflection evidence that the Hayward fault extends into the lower crust of the San Francisco Bay area, California, Bull Seismol Soc Am **88**(5) 1212-1223 (Oct 1998), 4A1497
Intermediate-term earthquake prediction using the modified time-to-failure method in Southern California, Bull Seismol Soc Am **89**(1) 275-293 (Feb 1999), 8A1485
Disaggregation of seismic hazard, Bull Seismol Soc Am **89**(2) 501-520 (Apr 1999), 10A1522
Evaluation of earthquake prediction rates allowing for magnitude uncertainties, Acta Geophys Polonica **46**(3) 233-259 (1998), 10A1523
Statistical evaluation of earthquake prediction results - Comments on the success rate and alarm rate: II, Acta Geophys Polonica **46**(3) 261-271 (1998), 10T1524
Large earthquake occurrence affected by small stress changes, Bull Seismol Soc Am **89**(3) 822-828 (Jun 1999), 11A1532

454F. Heat transfer aspects

Simultaneous measurement of the heat and mass diffusivities in unsaturated moist soils using constant heat flux method, J Hydrodyn **10**(2) 87-93 (1998), 2A1441
Heat stability analysis of embankment on the degrading permafrost district in the East of the Tibetan Plateau, China, Cold Regions Sci Tech **28**(3) 183-188 (Dec 1998), 7T1544

454G. Vulcanology

Effect of fluid thermal expansivity on thermomechanical solitary shock waves in the underground of volcanic domains, Pure Appl Geophys **152**(2) 193-211 (Jul 1998), 2A1442
Calculation and mesh generation of a 3D matrix fracture system, J Hydraul Res **36**(6) 867-883 (1998), 6T1478

454H. Glaciology

Accurate viscoelastic modeling by frequency-domain finite differences using rotated operators, Geophys **63**(5) 1779-1794 (Sep-Oct 1998), 3A213
Medium-scale indentation tests on sea ice at various speeds, Cold Regions Sci Tech **28**(3) 161-182 (Dec 1998), 7T1594

454I. Gravity

Three-dimensional gravity modeling in all space, Surveys Geophys **19**(4) 339-368 (1998), 6A1479
Airborne gravimetry: An investigation of filtering, Geophys **64**(1) 61-69 (Jan-Feb 1999), 7A1545
Analytical expression for the gravity field of a polyhedral body with linearly varying density, Geophys **64**(1) 75-77 (Jan-Feb 1999), 7T1546
Numerical approach to depth determination from residual gravity anomaly due to two structures, Pure Appl Geophys **154**(2) 329-341 (Apr 1999), 11A1533

454Y. Computational techniques

Simulation of geological structure using the SH-wave solution, Acta Geophys Polonica **46**(1) 115-126 (1998), 1A1443
Novel blind-deconvolution method with an application to seismology, Inverse Prob **14**(4) 815-833 (Aug 1998), 2A1443
Rational approximation of stress and strain based on downhole acceleration measurements, Int J Numer Anal Methods Geomech **22**(8) 603-619 (Aug 1998), 2A1444
Regularization and trade-off associated with nonlinear geophysical inverse problems: Penalty homotopies, Inverse Prob **14**(4) 1033-1052 (Aug 1998), 2A1445
Robust nonlinear inversion of wave-tilt data, Inverse Prob **14**(4) 955-977 (Aug 1998), 2A1446
Seismic response to a prescribed seismogram of a body embedded in a multilayered half space, Comput Mech **22**(1) 70-76 (Jul 1998), 2A1447
Dithering of absorbers for efficient finite-difference modeling of viscoelastic wave propagation, Geophys **63**(5) 1799-1812 (Sep-Oct 1998), 3A214
Analytical method to interpret self-potential anomalies caused by 2D inclined sheets, Geophys **63**(5) 1551-1555 (Sep-Oct 1998), 3A1448
Asymptotic theory for imaging the attenuation factor Q, Geophys **63**(5) 1767-1778 (Sep-Oct 1998), 3A1449
Automatic NMO correction and velocity estimation by a feedforward neural network, Geophys **63**(5) 1696-1707 (Sep-Oct 1998), 3A1450
Bootstrap procedure for high-resolution velocity analysis, Geophys **63**(5) 1716-1725 (Sep-Oct 1998), 3A1451
Composite boundary-valued solution of the 2.5D Green's function for arbitrary acoustic media, Geophys **63**(5) 1813-1823 (Sep-Oct 1998), 3A1452
Computation of the true-amplitude weighting functions, Geophys **63**(5) 1648-1651 (Sep-Oct 1998), 3A1453
Elastic reverse time migration of marine walkaway vertical seismic profiling data, Geophys **63**(5) 1685-1695 (Sep-Oct 1998), 3A1454
Focusing aspects of the parabolic Radon transform, Geophys **63**(5) 1708-1715 (Sep-Oct 1998), 3A1455
Nonlinear refraction traveltime tomography, Geophys **63**(5) 1726-1737 (Sep-Oct 1998), 3A1456
One-dimensional elastic waveform inversion: A divide-and-conquer approach, Geophys **63**(5) 1670-1684 (Sep-Oct 1998), 3A1457
Reciprocity properties of one-way propagators, Geophys **63**(5) 1795-1798 (Sep-Oct 1998), 3A1458
Three-dimensional symmetric sampling, Geophys **63**(5) 1629-1647 (Sep-Oct 1998), 3A1459
Hybrid method for Love wave dispersion in vertically inhomogeneous media, Pure Appl Geophys **152**(3) 523-538 (Oct 1998), 4A210
Stochastic FEMs for the seismic response of soils, Int J Numer Anal Methods Geomech **22**(10) 819-850 (Oct 1998), 4A693
Nonstationary Bayesian kriging: A predictive technique to generate spatial corrections for seismic detection, location, and identification, Bull Seismol Soc Am **88**(5) 1275-1288 (Oct 1998), 4A1483
Computation of differential seismograms for point and plane scatterers in layered media, Bull Seismol Soc Am **88**(5) 1311-1324 (Oct 1998), 4A1485
Parametric-historic procedure for probabilistic seismic hazard analysis - Part I: Estimation of maximum regional magnitude m_{max}, Pure Appl Geophys **152**(3) 413-442 (Oct 1998), 4A1486
2.5D modeling of seismic wave propagation: Boundary condition, stability criterion, and efficiency, Geophys **63**(6) 2082-2090 (Nov-Dec 1998), 5A1467
Effects of attenuation and scattering on AVO measurements, Geophys **63**(6) 2025-2034 (Nov-Dec 1998), 5A1468
Equivalent offset method of prestack time migration, Geophys **63**(6) 2042-2053 (Nov-Dec 1998), 5A1469
Kirchhoff diffraction mapping in media with large velocity contrasts, Geophys **63**(6) 2072-2081 (Nov-Dec 1998), 5A1470
Potential inversion problems for coupled system of downgoing and upcoming one-way wave equations, J Comput Math **16**(6) 551-560 (Nov 1998), 5A1471
PP-wave reflection coefficients in weakly anisotropic elastic media, Geophys **63**(6) 2129-2141 (Nov-Dec 1998), 5A1472
Stable depth extrapolation of seismic wavefields by a Neumann series, Geophys **63**(6) 2063-2071 (Nov-Dec 1998), 5A1473
Numerical Modelling in Applied Geodynamics (Wiley, UK, 1998) 6R38
Three-dimensional gravity modeling in all space, Surveys Geophys **19**(4) 339-368 (1998), 6A1479
Weak elastic-wave scattering from massive sulfide orebodies, Geophys **64**(1) 289-299 (Jan-Feb 1999), 7A218
Applying FE analysis to the memory variable formulation of wave propagation in anelastic media, Geophys **64**(1) 300-307 (Jan-Feb 1999), 7A219
Big ray-tracing and eikonal solver on unstructured grids: Application to the computation of a multivalued traveltime field in the Marmousi model, Geophys **64**(1) 230-239 (Jan-Feb 1999), 7A1547
Coherency calculations in the presence of structural dip, Geophys **64**(1) 104-111 (Jan-Feb 1999), 7A1548
Dip moveout in the radon domain, Geophys **64**(1) 278-288 (Jan-Feb 1999), 7A1549
Fast 2D ray + Born migration-inversion in complex media, Geophys **64**(1) 162-181 (Jan-Feb 1999), 7A1550
Fourier prestack migration by equivalent wavenumber, Geophys **64**(1) 197-207 (Jan-Feb 1999), 7A1551
Least-squares migration of incomplete reflection data, Geophys **64**(1) 208-221 (Jan-Feb 1999), 7A1552
Preconditioning of full-waveform inversion in viscoacoustic media, Geophys **64**(1) 130-145 (Jan-Feb 1999), 7A1553
Seismic signal band estimation by interpretation of f-x spectra, Geophys **64**(1) 251-260 (Jan-Feb 1999), 7A1554
Simultaneous inversion for model geometry and elastic parameters, Geophys **64**(1) 182-190 (Jan-Feb 1999), 7A1555
Theoretical comparison of equivalent-offset migration and dip moveout-prestack imaging, Geophys **64**(1) 191-196 (Jan-Feb 1999), 7A1556
Traveltime prediction and suppression of 3D multiples, Geophys **64**(1) 261-277 (Jan-Feb 1999), 7A1557
True-amplitude transformation to zero offset of data from curved reflectors, Geophys **64**(1) 112-129 (Jan-Feb 1999), 7A1558
Three-dimensional elastic finite-difference modeling of seismic motion using staggered grids with nonuniform spacing, Bull Seismol Soc Am **89**(1) 54-68 (Feb 1999), 8A1483
Empirical Green's functions: A comparison between pulse width measurements and deconvolution by spectral division, Bull Seismol Soc Am **89**(1) 178-189 (Feb 1999), 8A1486
Three-dimensional displacement finite differences and a combined memory optimization, Bull Seismol Soc Am **89**(1) 69-79 (Feb 1999), 8A1487
Application of parallel computing for the analysis of seismic energy in the coda of regional earthquakes (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 539-555 (1998), 9A1491
Finite difference scheme for elliptic equations with rough coefficients using a Cartesian grid nonconforming to interfaces, SIAM J Numer Anal **36**(2) 442-464 (Jan 1999), 9A1492
Propagation and attenuation of seismic body waves in initially stressed dissipative medium, Acta Geophys Polonica **46**(3) 351-366 (1998), 10T255
Cross-hole tomography using simulated annealing technique, Acta Geophys Polonica **46**(2) 161-170 (1998), 10A1525
Distribution of acoustic wavefield in boreholes and rock formations, Acta Geophys Polonica **46**(3) 307-324 (1998), 10T1526
Fresnel zone effect on seismic velocity resolution, Geophys **64**(2) 593-603 (Mar-Apr 1999), 10A1527
Ground roll supression using the Karhunen-Loeve transform, Geophys **64**(2) 564-566 (Mar-Apr 1999), 10A1528
Noise-optimized objective method for predictive deconvolution, Geophys **64**(2) 552-563 (Mar-Apr 1999), 10A1529
Optimal true-amplitude least-squares prestack depth-migration operator, Geophys **64**(2) 508-515 (Mar-Apr 1999), 10A1530
Reconstruction of band-limited signals, irregularly sampled along one spatial direction, Geophys **64**(2) 524-538 (Mar-Apr 1999), 10A1531
Three-dimensional traveltime computation using the fast marching method, Geophys **64**(2) 516-523 (Mar-Apr 1999), 10A1532
Using even terms of the scattering series for deghosting and multiple attenuation of ocean-bottom cable data, Geophys **64**(2) 579-592 (Mar-Apr 1999), 10A1533
Zero moveout (ZMO) stacking, Geophys **64**(2) 567-571 (Mar-Apr 1999), 10A1534
Simple orthonormalization method for stable and efficient computation of Green's functions, Bull Seismol Soc Am **89**(3) 733-741 (Jun 1999), 11A119
Converted-wave reflection seismology over inhomogeneous, anisotropic media, Geophys **64**(3) 678-690 (May-Jun 1999), 11A1534
Effects of vector attenuation on AVO of offshore reflections, Geophys **64**(3) 815-819 (May-Jun 1999), 11A1535
Estimation of near-surface shear-wave velocity by inversion of Rayleigh waves, Geophys **64**(3) 691-700 (May-Jun 1999), 11A1536
Factors affecting spatial resolution, Geophys **64**(3) 942-953 (May-Jun 1999), 11A1537
Finite-element ray tracing through structurally deformed transversely isotropic formations, Geophys **64**(3) 954-962 (May-Jun 1999), 11A1538
Focusing geophysical inversion images, Geophys **64**(3) 874-887 (May-Jun 1999), 11A1539
Mapping prestack depth-migrated coherent signal and noise events back to the original time gathers using Fermat's principle, Geophys **64**(3) 934-941 (May-Jun 1999), 11A1540
Multichannel analysis of surface waves, Geophys **64**(3) 800-808 (May-Jun 1999), 11A1541
P- and S-wave characterization of near-surface reflectivity from glacial tills using vertical seismic profiles, Geophys **64**(3) 970-980 (May-Jun 1999), 11A1542
Recipe for stability of finite-difference wave-equation computations, Geophys **64**(3) 967-969 (May-Jun 1999), 11A1543
Removal of water-layer multiples from multicomponent sea-bottom data, Geophys **64**(3) 838-851 (May-Jun 1999), 11A1544
Resolving power of seismic amplitude data: An anisotropic inversion-migration approach, Geophys **64**(3) 852-873 (May-Jun 1999), 11A1545
Seismic depth migration with the Dirac equation, Geophys **64**(3) 925-933 (May-Jun 1999), 11A1546
Seismic waveform inversion in the frequency domain - Part I: Theory and verification in a physical scale model, Geophys **64**(3) 888-901 (May-Jun 1999), 11A1547
Seismic waveform inversion in the frequency domain - Part 2: Fault delineation in sediments using crosshole data, Geophys **64**(3) 902-914 (May-Jun 1999), 11A1548
Simulated annealing 2D nonlinear inversion of geomagnetic deep sounding data near Ujjain-Guna, India, Pure Appl Geophys **154**(2) 343-363 (Apr 1999), 11A1549
Three-dimensional moveout velocity analysis and parameter estimation for orthorhombic media, Geophys **64**(3) 820-837 (May-Jun 1999), 11A1550
Transparent boundary technique for numerical modeling of elastic waves, Geophys **64**(3) 963-966 (May-Jun 1999), 11A1551
True-amplitude frequency-wavenumber constant-offset migration, Geophys **64**(3) 915-924 (May-Jun 1999), 11A1552
Spectral element method for elastic wave equations: Application to 2D and 3D seismic problems, Int J Numer Methods Eng **45**(9) 1139-1164 (Jul 1999), 12A195

454Z. Explorations and measurements

Note on the extension of the SES sensitive area at Ioannina Station, Greece, Acta Geophys Polonica **46**(1) 54-60 (1998), 1T1449
Optical fiber interferometers for referencing surface benchmarks to depth, Pure Appl Geophys **152**(2) 221-246 (Jul 1998), 2A1448
Assessment of the coefficient of the earth pressure at rest from shear wave velocity meaurements, Geotechnique **48**(5) 657-666 (Oct 1998), 4A1487
Bayesian statistics applied to the location of the source of explosions at Stromboli Volcano, Italy, Bull Seismol Soc Am **88**(5) 1099-1111 (Oct 1998), 4A1488
Estimation of Q from surface seismic reflection data, Geophys **63**(6) 2120-2128 (Nov-Dec 1998), 5A1474
Stability analysis and improvement of structural index estimation in Euler deconvolution, Geophys **64**(1) 48-60 (Jan-Feb 1999), 7A1559
Deconvolution of teleseismic body waves for enhancing structure beneath a seismometer array, Bull Seismol Soc Am **89**(1) 190-201 (Feb 1999), 8A1479
Empirical Green's functions: A comparison between pulse width measurements and deconvolution by spectral division, Bull Seismol Soc Am **89**(1) 178-189 (Feb 1999), 8A1486
Lateral variation of Pn and Lg attenuation at the CDSN station LSA, Bull Seismol Soc Am **89**(1) 325-330 (Feb 1999), 8A1488
Microtremor measurements used to map thickness of soft sediments, Bull Seismol Soc Am **89**(1) 250-259 (Feb 1999), 8A1489
Wide-aperture beamforming of depth phases by timescale contraction, Bull Seismol Soc Am **89**(1) 165-177 (Feb 1999), 8A1490
Electromagnetic soundings across the Holy Cross Mountains, Poland, Acta Geophys Polonica **46**(2) 171-185 (1998), 10T1535
Extent of the SES sensitive area around Ioannina: Additional evidence II, Acta Geophys Polonica **46**(4) 411-413 (1998), 10T1536
Evolution of stress fields and faulting in seismic zones, Pure Appl Geophys **154**(2) 257-280 (Apr 1999), 11A1553
Interseismic elevation changes observed near 75.5° E longitude in the NW Himalaya, Bull Seismol Soc Am **89**(3) 837-843 (Jun 1999), 11A1554
Multi-wavelet analysis of three-component seismic arrays: Application to measure effective anisotropy at Pinon Flats, California, Bull Seismol Soc Am **89**(3) 693-705 (Jun 1999), 11A1555
VLA and spacecraft observations of solar activity, Surveys Geophys **19**(6) 521-555 (1998), 11A1556

456. EARTHQUAKE MECHANICS

456B. Seismicity (rates of occurrence)

Dislocation field evolution and dislocation source-sink function, Acta Geophys Polonica **46**(1) 13-33 (1998), 1A9
Discriminating ripple-fired explosions with high-frequency (> 16 Hz) data, Bull Seismol Soc Am **88**(4) 963-972 (Aug 1998), 2A748
Global test of a time-frequency small-event discriminant, Bull Seismol Soc Am **88**(4) 973-988 (Aug 1998), 2A749

Evaluation of models for earthquake source spectra in Eastern North America, Bull Seismol Soc Am **88**(4) 917-934 (Aug 1998), 2A1449
Forecasts of the 1989 Loma Prieta, California, Earthquake, Bull Seismol Soc Am **88**(4) 898-916 (Aug 1998), 2A1450
The 1995 off-Etorofu earthquake: Joint relocation of foreshocks, the mainshock, and aftershocks and implications for the earthquake nucleation process, Bull Seismol Soc Am **88**(5) 1112-1126 (Oct 1998), 4T1489
3000-year paleoseismological record from the region of the 1988 Saguenay, Quebec, earthquake, Bull Seismol Soc Am **88**(5) 1198-1203 (Oct 1998), 4A1490
Earthquake size distributions, Bull Seismol Soc Am **88**(5) 1325-1326 (Oct 1998), 4A1491
Implications of a composite source model and seismic-wave attenuation for the observed simplicity of small earthquakes and reported duration of earthquake initiation phase, Bull Seismol Soc Am **88**(5) 1171-1181 (Oct 1998), 4T1492
Multiplet analysis at Coso geothermal, Bull Seismol Soc Am **88**(5) 1127-1143 (Oct 1998), 4A1493
Recommendations for determining p values for aftershock sequences and catalogs, Bull Seismol Soc Am **88**(5) 1144-1154 (Oct 1998), 4A1494
Regionalized versus single-station wave-guide effects on seismic discriminants in western China, Bull Seismol Soc Am **88**(5) 1260-1274 (Oct 1998), 4A1495
Correlation of seismic intensity with Fourier amplitude spectra, Earthquake Spectra **14**(4) 679-694 (Nov 1998), 5A1475
Conditions under which velocity-weakening friction allows a self-healing versus a cracklike mode of rupture, Bull Seismol Soc Am **88**(6) 1466-1483 (Dec 1998), 6A953
Compressional and shear velocity structure of the lithosphere in northern Iceland, Bull Seismol Soc Am **88**(6) 1561-1571 (Dec 1998), 6A1480
Earthquake source parameters and fault kinematics in the Eastern California shear zone, Bull Seismol Soc Am **88**(6) 1337-1352 (Dec 1998), 6A1481
Faulting apparently related to the 1994 Northridge, California, earthquake and possible co-seismic origin of surface cracks in Potrero Canyon, Los Angeles County, California, Bull Seismol Soc Am **88**(6) 1379-1391 (Dec 1998), 6A1482
Regional and far-regional earthquake locations and source parameters using sparse broadband networks: A test on the ridgecrest sequence, Bull Seismol Soc Am **88**(6) 1353-1362 (Dec 1998), 6A1483
Seismicity induced by mining, Pure Appl Geophys **153**(1) 5-233 (Dec 1998), 7A1560
Intermediate-term earthquake prediction using the modified time-to-failure method in Southern California, Bull Seismol Soc Am **89**(1) 275-293 (Feb 1999), 8A1485
Alternative method for a reliable estimation of seismicity with an application in Greece and the surrounding area, Bull Seismol Soc Am **89**(1) 111-119 (Feb 1999), 8T1491
Deaggregation of probabilistic ground motions in the central and eastern United States, Bull Seismol Soc Am **89**(1) 1-13 (Feb 1999), 8A1492
Defining seismogenic sources from historical earthquake felt reports, Bull Seismol Soc Am **89**(1) 94-110 (Feb 1999), 8A1493
Patterns of historical earthquake rupture in the Iranian plateau, Bull Seismol Soc Am **89**(1) 120-139 (Feb 1999), 8T1494
Seismic coupling of interface modes in sedimentary basins: A recipe for disaster, Bull Seismol Soc Am **89**(1) 14-21 (Feb 1999), 8A1495
Disaggregation of seismic hazard, Bull Seismol Soc Am **89**(2) 501-520 (Apr 1999), 10A1522
Evaluation of earthquake prediction rates allowing for magnitude uncertainties, Acta Geophys Polonica **46**(3) 233-259 (1998), 10A1523
Statistical evaluation of earthquake prediction results - Comments on the success rate and alarm rate: II, Acta Geophys Polonica **46**(3) 261-271 (1998), 10T1524
Additional evidence on the extent of the SES sensitive area around Ioannina, Acta Geophys Polonica **46**(3) 273-275 (1998), 10T1537
Analysis of a seismic record in the frequency-wavenumber domain, Acta Geophys Polonica **46**(3) 325-350 (1998), 10A1538
Comments on the predictions of large earthquakes issued by Van during the last decade, Acta Geophys Polonica **47**(1) 59-75 (1999), 10A1539
Determination of the moment magnitude of mining tremors recorded by seismic stations at Ojcow and Ksiaz, Poland, Acta Geophys Polonica **46**(3) 295-305 (1998), 10T1540
Focal mechanism and source time function of selected aftershocks of the Egion 1995 earthquake, Gulf of Corinth, Greece, Acta Geophys Polonica **47**(1) 1-25 (1999), 10T1541
Revised world seismicity catalog (1950-1997) for strong ($Ms \geq 6$) shallow ($h \leq 70$ km) earthquakes, Bull Seismol Soc Am **89**(2) 335-341 (Apr 1999), 10A1542
Supposed relations between seismicity and tectonic features in fennoscandia, Acta Geophys Polonica **46**(2) 135-144 (1998), 10A1543
Use of seismic method for monitoring underground gas storage in salt domes, Acta Geophys Polonica **46**(2) 145-159 (1998), 10T1580
Point pattern analysis of the distribution of earthquakes in Normandy (France), Bull Seismol Soc Am **89**(3) 742-749 (Jun 1999), 11A1557
Preliminary results of P-wave tomography determined from selected aftershocks of the egion 1995 earthquake, Gulf of Corinth, Greece, Acta Geophys Polonica **47**(2) 165-184 (1999), 11T1558
Recent earthquake sequences at Coso: Evidence for conjugate faulting and stress loading near a Geothermal field, Bull Seismol Soc Am **89**(3) 785-795 (Jun 1999), 11A1559
Seismic activity of the San Francisco Bay region, Bull Seismol Soc Am **89**(3) 764-784 (Jun 1999), 11A1560
Seismicity and stress-tensor inversion in the central Washington cascade mountains, Bull Seismol Soc Am **89**(3) 811-821 (Jun 1999), 11A1561
Variability of ground motions in southern California: Data from the 1995 to 1996 Ridgecrest sequence, Bull Seismol Soc Am **89**(3) 626-639 (Jun 1999), 11A1562
Mutually consistent seismic-hazard source model for southern California, Bull Seismol Soc Am **89**(3) 559-578 (Jun 1999), 11A1573

456C. Characteristics of strong ground motion

Attenuation relationship for estimation of peak ground horizontal acceleration using data from strong-motion arrays in India, Bull Seismol Soc Am **88**(4) 1063-1069 (Aug 1998), 2T1451
Duration and energy characteristics of Greek strong motion records, J Earthquake Eng **2**(3) 391-417 (Jul 1998), 2A1452
Earthquake destructiveness potential factor and slope stability, Geotechnique **48**(3) 411-419 (Jun 1998), 2T1453
Global CMT analysis of moderate earthquakes, $M_w \geq 4.5$, using intermediate-period surface waves, Bull Seismol Soc Am **88**(4) 1003-1013 (Aug 1998), 2A1454
Magnitude of nonlinear sediment response in Los Angeles Basin during the 1994 Northridge, California, earthquake, Bull Seismol Soc Am **88**(4) 1079-1084 (Aug 1998), 2A1455
Maximum spectral energy for seismic magnitude estimation - Part I: Rayleigh-wave magnitude, Bull Seismol Soc Am **88**(4) 952-962 (Aug 1998), 2A1456
Physical model of the effect of a shallow weak layer on strong ground motion for strike-slip ruptures, Bull Seismol Soc Am **88**(4) 1070-1078 (Aug 1998), 2A1457
Properties and implications of dynamic rupture along a material interface, Bull Seismol Soc Am **88**(4) 1085-1094 (Aug 1998), 2A1458
Self-consistent retrieval of source parameters using mantle waves, Bull Seismol Soc Am **88**(4) 995-1002 (Aug 1998), 2A1459
Three-dimensional finite-difference modeling of the San Andreas Fault: Source parameterization and ground-motion levels, Bull Seismol Soc Am **88**(4) 881-897 (Aug 1998), 2A1460
Uniform estimation of some basic ground motion parameters, J Earthquake Eng **2**(2) 267-287 (Apr 1998), 2A1461
Estimation of ground motion acceleration and building response to a long distance earthquake, J Earthquake Eng **2**(3) 477-485 (Jul 1998), 2A1469
Effects of lateral constraints and inertia on stress wave propagation in dry soil columns, Geotechnique **48**(4) 449-463 (Aug 1998), 3A664
Advanced sensitivity calibration of the Los Angeles strong motion array, Earthquake Eng Struct Dyn **27**(10) 1053-1068 (Oct 1998), 3T1460
Anisotropic seismic ground responses identified from the Hualien vertical array, Soil Dyn Earthquake Eng **17**(6) 371-395 (Aug 1998), 3A1461
Characteristics of seismic ground motion estimated from rotation response of tomb stones (Japanese), Proc JSCE **598**(I-44) 287-298 (Jul 1998), 3A1462
Cross-axis sensitivity of accelerographs with pendulum like transducers: Mathematical model and the inverse problem, Earthquake Eng Struct Dyn **27**(10) 1031-1051 (Oct 1998), 3T1463
Propagation of SH waves in a layered half-space with a frictional contact interface, Bull Seismol Soc Am **88**(5) 1300-1310 (Oct 1998), 4A211
Using safety inspection data to estimate shaking intensity for the 1994 Northridge earthquake, Bull Seismol Soc Am **88**(5) 1243-1253 (Oct 1998), 4A1482
Ground-motion amplification in the Santa Monica area: Effects of shallow basin-edge structure, Bull Seismol Soc Am **88**(5) 1224-1242 (Oct 1998), 4A1496
Modeling dynamic rupture in a 3D earthquake fault model, Bull Seismol Soc Am **88**(5) 1182-1197 (Oct 1998), 4A1501
Spectral comparison of vertical and horizontal seismic strong ground motions in alluvial basins, Earthquake Spectra **14**(4) 573-595 (Nov 1998), 5A1476
Spatial variation in liquefaction risk, Geotechnique **48**(6) 819-831 (Dec 1998), 6A733
Aftershock decay of three recent strong earthquakes in the Levant, Bull Seismol Soc Am **88**(6) 1580-1587 (Dec 1998), 6A1484
Incident boundary and averaged amplification factors of SH wave for ground with irregular subsurface topography (Japanese), Proc JSCE **605**(I-45) 91-103 (Oct 1998), 6A1485
Near-surface scattering effects observed with a high-frequency phase array at Pinyon Flats, California, Bull Seismol Soc Am **88**(6) 1548-1560 (Dec 1998), 6A1486
Study of weak and strong ground motion including nonlinearity from the Northridge, California, earthquake sequence, Bull Seismol Soc Am **88**(6) 1411-1425 (Dec 1998), 6A1487
Variability in nonlinear sediment response during the 1994 Northridge, California, earthquake, Bull Seismol Soc Am **88**(6) 1426-1437 (Dec 1998), 6A1488
Stochastic finite-fault modeling of ground motions from the 1994 Northridge, California, earthquake - I: Validation on rock sites, Bull Seismol Soc Am **88**(6) 1392-1401 (Dec 1998), 6A1507
Stochastic finite-fault modeling of ground motions from the 1994 Northridge, California, earthquake - II: Widespread nonlinear response at soil sites, Bull Seismol Soc Am **88**(6) 1402-1410 (Dec 1998), 6A1508
Canyon topography effects on ground motion at Feitsui damsite, Soil Dyn Earthquake Eng **18**(2) 87-99 (Feb 1999), 7A1561
Modeling, synthetics and engineering applications of strong earthquake wave motion, Soil Dyn Earthquake Eng **18**(3) 209-228 (Apr 1999), 7A1562
Simplified method for estimating maximum shear stress in the ground during earthquakes (Japanese), Proc JSCE **610**(III45) 83-96 (Dec 1998), 7A1563
Simulation of strong earthquake motion by explosions: Experiments at the Lyaur testing range in Tajikistan, Soil Dyn Earthquake Eng **18**(3) 189-207 (Apr 1999), 7A1564
Site characteristics for the Iranian strong motion network, Soil Dyn Earthquake Eng **18**(2) 101-123 (Feb 1999), 7A1565
Basin waves on a seafloor recording of the 1990 Upland, California, Earthquake: Implications for ground motions from a larger earthquake, Bull Seismol Soc Am **89**(1) 317-324 (Feb 1999), 8T1496
Effective duration of earthquake strong motion, J Earthquake Eng **3**(2) 127-172 (Apr 1999), 8A1497
Comparison of methodologies for representing path effects on regional P-S discriminants, Bull Seismol Soc Am **89**(2) 394-408 (Apr 1999), 10A1544
Empirical path corrections for regional-phase amplitudes, Bull Seismol Soc Am **89**(2) 384-393 (Apr 1999), 10A1545
Joint focal mechanism determination with source-region station corrections using short-period body-wave amplitude data, Bull Seismol Soc Am **89**(2) 373-383 (Apr 1999), 10A1546
Moment-magnitude relations based on strong-motion records in Greece, Bull Seismol Soc Am **89**(2) 442-455 (Apr 1999), 10A1547
Source comparisons between nuclear and chemical explosions detonated at Rainier Mesa, Nevada test site, Bull Seismol Soc Am **89**(2) 409-422 (Apr 1999), 10A1548
Variability of ground motions in southern California: Data from the 1995 to 1996 Ridgecrest sequence, Bull Seismol Soc Am **89**(3) 626-639 (Jun 1999), 11A1562
Seismic source summary for Soviet peaceful nuclear explosions, Bull Seismol Soc Am **89**(3) 640-647 (Jun 1999), 11A1563
Generic finite-fault model for ground-motion prediction in eastern North America, Bull Seismol Soc Am **89**(3) 608-625 (Jun 1999), 11A1572

456D. Geological criteria

Analysis on the initiation of periodically distributed defects, Int J Plasticity **14**(8) 673-688 (1998), 3A1464
Seismic-reflection evidence that the Hayward fault extends into the lower crust of the San Francisco Bay area, California, Bull Seismol Soc Am **88**(5) 1212-1223 (Oct 1998), 4A1497
Using GIS in the probabilistic assessment of earthquake triggered landslide hazards, J Earthquake Eng **2**(4) 593-623 (Oct 1998), 5A1477
Shear modulus and damping of clayey sands, J Earthquake Eng **3**(2) 271-285 (Apr 1999), 8A1498
Site-dependent amplification functions and response spectra in Greece, J Earthquake Eng **3**(2) 235-270 (Apr 1999), 8A1499
Rigorous landslide hazard zonation using Newmark's method and stochastic ground motion simulation, Soil Dyn Earthquake Eng **18**(4) 305-323 (Jun 1999), 10A1549
Effects of 3D inhomogeneous viscoelastic structures on postseismic surface deformations associated with the great 1946 Nankaido earthquake, Pure Appl Geophys **154**(2) 307-328 (Apr 1999), 11A1564
Seismotectonic model and CN earthquake prediction in Italy, Pure Appl Geophys **154**(2) 281-306 (Apr 1999), 11A1565

456E. Soil-structure interaction

Hybrid time frequency domain formulation for nonlinear soil-structure interaction, Earthquake Eng Struct Dyn **27**(7) 673-685 (Jul 1998), 1A372
Discrete model for dynamic through-the-soil coupling of 3D foundations and structures, Earthquake Eng Struct Dyn **27**(7) 687-710 (Jul 1998), 1A1444
System identification for evaluating soil-structure interaction effects in buildings from strong motion recordings, Earthquake Eng Struct Dyn **27**(8) 869-885 (Aug 1998), 1A1445
Analog circuit to simulate dynamic soil: Structure interaction in shake table test, Soil Dyn Earthquake Eng **17**(5) 279-287 (Jul 1998), 2A1462
BEM-FEM convolution approach to the unilateral contact problem of seismic soil-pipeline interaction, Eng Anal Boundary Elements **22**(1) 77-81 (Jul 1998), 2A1463
Nonlinear dynamic earth DAM-foundation interaction using a BEM-FEM, Earthquake Eng Struct Dyn **27**(9) 917-936 (Sep 1998), 2A1464
Strength and ductility of cylindrical steel piers subjected to cyclic lateral load (Japanese), Proc JSCE **598**(I-44) 125-135 (Jul 1998), 3A922
Effect of cross-anisotropic behavior on wave-induced seabed response, Geotechnique **48**(4) 555-561 (Aug 1998), 3A1036
Sensitivity of bridge seismic response with local soil amplification, Earthquake Eng Struct Dyn **27**(10) 1095-1099 (Oct 1998), 3A1465
Scattering of seismic waves at arch dam canyon and dynamic response of dam-foundation system (Chinese), J Dalian Univ Tech **38**(5) 575-579 (Sep 1998), 4A1498
Free vibrations and modes of chimneys on an elastic foundation, J Sound Vib **218**(3) 541-547 (Dec 1998), 5T118
Phenomenological two-parameter model for dynamic dam-reservoir interaction, J Earthquake Eng **2**(4) 513-524 (Oct 1998), 5A603
Effects of foundation embedment during building-soil interaction, Earthquake Eng Struct Dyn **27**(12) 1523-1540 (Dec 1998), 5A1478
Semi-continuum seismic analysis of soil-building systems, Eng Struct **21**(4) 332-340 (Apr 1999), 5A1479
Three-dimensional nonlinear soil-building interaction analysis in the lakebed zone of Mexico City during the hypothetical Guerrero earthquake, Earthquake Eng Struct Dyn **27**(12) 1483-1502 (Dec 1998), 5A1480
Soil reinforcement for seismic design of geotechnical structures, Comput Geotech **23**(1-2) 1-17 (1998), 6A748
Effect of soil-structure interaction on the reliability of hyperbolic cooling towers, Struct Eng and Mech **7**(2) 217-224 (Feb 1999), 6A1489
Horizontal impedance of square foundation in layered soil, Soil Dyn Earthquake Eng **18**(1) 59-69 (Jan 1998), 6A1490
Seismic response of composite foundation with CDM piles, J Vib Eng **11**(4) 416-423 (Dec 1998), 6T1491
Experimental evidence for flexibility of a building foundation supported by concrete friction piles, Soil Dyn Earthquake Eng **18**(3) 169-187 (Apr 1999), 7A1566
Coupling model of FE-BE-IE-IBE for nonlinear layered soil-structure interactions, Earthquake Eng Struct Dyn **28**(4) 421-441 (Apr 1999), 9A1493
Simulation analyses of buildings damaged in the 1995 Kobe, Japan, earthquake considering soil-structure interaction, Earthquake Eng Struct Dyn **28**(4) 371-391 (Apr 1999), 9T1494
Soil-structure interaction in tall buildings by a discrete force method, Proc Inst Civil Eng Struct Build **134**(1) 9-18 (Feb 1999), 9A1495
Stochastic seismic response of multiply-supported secondary systems in flexible-base structures, Earthquake Eng Struct Dyn **28**(4) 351-369 (Apr 1999), 9A1496
Probabilistic evaluation of seismic damage states of bridge structure system (Japanese), Proc JSCE **613**(V-42) 31-42 (Feb 1999), 10A1008
Centrifuge modeling of models of seismic effects on saturated earth structures, Geotechnique **49**(2) 247-266 (Apr 1999), 10A1550
Seismic performance of reinforced concrete high pier with hollow section (Japanese), Proc JSCE **613**(V-42) 103-120 (Feb 1999), 10A1551
Seismic response of stepped frame-shear wall structures by using numerical method, Comput Methods Appl Mech Eng **173**(1-2) 31-39 (Apr 1999), 10A1552
Analysis method for prestressed precast culverts of a flexible system following ground subsidence in the

longitudinal direction (Japanese), Proc JSCE **617**(III-46) 31-47 (Mar 1999), 11A911
Counteracting moment device for reduction of earthquake-induced excursions of multi-level buildings, J Acoust Soc Am **105**(5) 2695-2703 (May 1999), 11A1566
Simplified model for dam-foundation dynamic interaction and seismic analysis (Chinese), Chinese J Comput Mech **16**(2) 132-137 (May 1999), 11A1567
Stochastic analysis of seismic structural response with soil-structure interaction, Struct Eng and Mech **8**(1) 53-72 (Jul 1999), 11A1568
Earthquake Engineering (Balkema, Rotterdam, Netherlands, 1998) 12N36

456F. Structural response

Seismic, Shock, and Vibration Insolation - 1998 (ASME, New York, 1998) 1N30
Optimal damping between two adjacent elastic structures, Earthquake Eng Struct Dyn **27**(7) 649-659 (Jul 1998), 1A134
Vibration control of cable-stayed bridges - Part 1: Modeling issues, Earthquake Eng Struct Dyn **27**(8) 811-824 (Aug 1998), 1A176
Dynamic analysis on structures base-isolated by a ball system with restoring property, Earthquake Eng Struct Dyn **27**(8) 773-791 (Aug 1998), 1A189
Hybrid time frequency domain formulation for nonlinear soil-structure interaction, Earthquake Eng Struct Dyn **27**(7) 673-685 (Jul 1998), 1A372
Control of structural seismic response by self-recurrent neural network, Earthquake Eng Struct Dyn **27**(7) 641-648 (Jul 1998), 1A1446
Ductility reduction factor in the seismic design of buildings, Earthquake Eng Struct Dyn **27**(7) 749-769 (Jul 1998), 1A1447
Evaluation of structural walls designed according to Eurocode 8 and SIA 160, Earthquake Eng Struct Dyn **27**(8) 793-809 (Aug 1998), 1T1448
LMI approach to H_∞-control of time-delay systems for the benchmark problem, Earthquake Eng Struct Dyn **27**(9) 957-976 (Sep 1998), 2A481
Composite adaptive SMC of nonlinear base isolated buildings with actuator dynamics, Appl Math Comp Sci **8**(1) 183-197 (1998), 2A551
Fiber finite beam element with section shear modeling for seismic analysis of RC structures, J Earthquake Eng **2**(3) 443-473 (Jul 1998), 2A954
Active response control of buildings for large earthquakes: Seismic response control system with variable structural characteristics, Smart Mat Struct **7**(4) 522-529 (Aug 1998), 2A1465
Amplification factors for equipment design subjected to seismic loading, J Pressure Vessel Tech **120**(4) 334-342 (Nov 1998), 2A1466
Effects of vertical acceleration on seismic design of geosynthetic-reinforced soil structures, Geotechnique **48**(3) 347-373 (Jun 1998), 2A1467
Elastically supported cantilever beam subjected to nonstationary seismic excitation, Earthquake Eng Struct Dyn **27**(9) 977-995 (Sep 1998), 2A1468
Estimation of ground motion acceleration and building response to a long distance earthquake, J Earthquake Eng **2**(3) 477-485 (Jul 1998), 2A1469
Experimental data on seismic response of piping components, J Pressure Vessel Tech **120**(4) 449-455 (Nov 1998), 2A1470
Plastic-damage concrete model for earthquake analysis of dams, Earthquake Eng Struct Dyn **27**(9) 937-956 (Sep 1998), 2A1471
Probabilistic evaluation of seismic risk in urban areas (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 247-268 (1998), 2A1472
Seismic demand based on damage control model: Considering basin effect and source effect, Soil Dyn Earthquake Eng **17**(5) 335-345 (Jul 1998), 2A1473
Approximating systems of differential equations with random inputs or boundary conditions, Stochastic Anal Appl **16**(2) 313-324 (1998), 3A118
Modeling of contraction joint and shear sliding effects on earthquake response of arch dams, Earthquake Eng Struct Dyn **27**(10) 1013-1029 (Oct 1998), 3A913
Characteristics of substation facilities' damage caused by recent earthquakes and their seismic countermeasures (Japanese), Proc JSCE **598**(I-44) 427-438 (Jul 1998), 3T1466
Effect of pier base restraint on ultimate seismic behavior of single-post type steel bridge piers (Japanese), Proc JSCE **598**(I-44) 413-426 (Jul 1998), 3A1467
Hybrid tests on earthquake response of seismic lateral force distributors (Japanese), Proc JSCE **598**(I-44) 299-309 (Jul 1998), 3A1468
Seismic response analysis of bridges isolated with friction pendulum bearings, Earthquake Eng Struct Dyn **27**(10) 1069-1093 (Oct 1998), 3A1469
Collisional sheet flows of sediment driven by a turbulent fluid, J Fluid Mech **370** 29-52 (Sep 1998), 4A1006
Study of calculation method of permanent deformation due to earthquake of concrete faced rock-fill dam (Chinese), J Dalian Univ Tech **38**(5) 580-585 (Sep 1998), 4A1499
Integrity evaluation of fuel assembly for earthquake, Nucl Eng Des **185**(1) 97-108 (Sep 1998), 4A1519
Dynamic Analysis and Earthquake Resistant Design, Volume 1: Strong Motion and Dynamic Properties (Balkema, Rotterdam, Netherlands, 1997) 5N39
Structural Response Prediction Using Experimental Data: The Sixth Mallet-Milne Lecture (Balkema, Rotterdam, Netherlands, 1997) 5N40
Intelligent beam transforming earthquake force into vibration control force and its optimal design, J Sound Vib **218**(3) 445-461 (Dec 1998), 5A121
Use of the active member concept in vibration mitigation of seismic structures, Eng Struct **21**(4) 341-351 (Apr 1999), 5A771
Efficient nonlinear seismic analysis of arch dams, Earthquake Eng Struct Dyn **27**(12) 1425-1444 (Dec 1998), 5A803
Improved response factor methods for seismic fragility of reactor building, Nucl Eng Des **185**(2-3) 277-291 (Oct 1998), 5A1481
Improved spectrum superposition method for structures with rigid modes, Nucl Eng Des **185**(2-3) 293-307 (Oct 1998), 5A1482
Linearization techniques for seismic analysis of piping system on friction support, J Pressure Vessel Tech **121**(1) 103-108 (Feb 1999), 5A1483
Post-Northridge earthquake seismic steel moment connections, Earthquake Spectra **14**(4) 659-677 (Nov 1998), 5A1484
Seismic hazard and damages: Avoiding disaster through simulation, experiment, and experience, J Pressure Vessel Tech **121**(1) 30-36 (Feb 1999), 5A1485
Seismic performance of moment-resisting steel frame structures designed for different levels of seismic hazard, Earthquake Spectra **14**(4) 597-627 (Nov 1998), 5A1486
Seismic reliability assessment of existing reinforced concrete buildings, J Earthquake Eng **2**(4) 569-592 (Oct 1998), 5A1487
Seismic response of steel frame buildings to near-source ground motions, Earthquake Eng Struct Dyn **27**(12) 1445-1464 (Dec 1998), 5A1488
Three-dimensional model for vulnerability analysis of slender medieval masonry towers, J Earthquake Eng **2**(4) 487-512 (Oct 1998), 5A1489
Toppling fragility of unrestrained equipment, Earthquake Spectra **14**(4) 695-711 (Nov 1998), 5A1490
Role of damping in seismic isolation, Earthquake Eng Struct Dyn **28**(1) 3-20 (Jan 1999), 6A136
Development of a new inspection method for concrete piles damaged due to earthquakes by acoustic emission waves from damaged portions (Japanese), Proc JSCE **605**(I-45) 61-77 (Oct 1998), 6A741
Adaptive base isolation system for the control of seismic energy flow into buildings, J Intelligent Mat Syst Struct **9**(2) 104-115 (Feb 1998), 6A1492
Experimental study on seismic response of sliding isolated building, Adv in Struct Eng **2**(1) 17-24 (Nov 1998), 6A1493
Model vibration tests to verify the seismic isolation effect for rectangular tunnel (Japanese), Proc JSCE **605**(I-45) 203-215 (Oct 1998), 6A1494
Nonlinear seismic behavior of concrete gravity dams using coupled FE-BE technique, Int J Numer Methods Eng **44**(1) 101-130 (Jan 1999), 6A1495
Proposal of seismic design method for underground structure base on the relative displacement between ceiling and base slab (Japanese), Proc JSCE **605**(I-45) 217-230 (Oct 1998), 6A1496
Response-based damage assessment of structures, Earthquake Eng Struct Dyn **28**(1) 79-104 (Jan 1999), 6T1497
Seismic design of suspension bridges superstructures, J Tsinghua Univ Sci Tech **38**(12) 52-56 (Dec 1998), 6A1498
Soil dynamics and earthquake engineering, Soil Dyn Earthquake Eng **17**(7-8) 415-578 (Oct-Dec 1998), 6T1499
Study on seismic resistance of steel pipe pier made of two different sections (Japanese), Proc JSCE **605**(I-45) 117-127 (Oct 1998), 6A1500
Three-dimensional seismic analysis of frames considering panel zone deformations, Proc JSCE **605**(I-45) 1-13 (Oct 1998), 6A1501
Use of nonlinear localization for isolating structures from earthquake-induced motions, Earthquake Eng Struct Dyn **28**(1) 21-36 (Jan 1999), 6A1502
Study on construction of temporary dwellings and problems caused by living long time on Hanshin-Awaji great earthquake (Japanese), Proc JSCE **604**(IV-41) 99-111 (Oct 1998), 6A1565
Optimal placement of DVFC controllers on buildings subjected to earthquake loading, Earthquake Eng Struct Dyn **28**(2) 127-141 (Feb 1999), 7A177
Seismic response and design of RC structures with plan-eccentric masonry infills, Earthquake Eng Struct Dyn **28**(2) 173-191 (Feb 1999), 7A178
New method of reduced order feedback control using genetic algorithms, Earthquake Eng Struct Dyn **28**(2) 193-212 (Feb 1999), 7A385
Instantaneous optimal control for seismic analysis of nonlinear structures, J Earthquake Eng **3**(1) 83-106 (Jan 1999), 7A823
Reinforced concrete scaled columns under cyclic actions, Soil Dyn Earthquake Eng **18**(2) 151-167 (Feb 1999), 7A1567
Softening effects on the seismic response of nonductile concrete frames, J Earthquake Eng **3**(1) 59-81 (Jan 1999), 7A1568
Statistical evaluation of the damage potential of earthquake ground motions, Struct Safety **20**(4) 357-378 (1998), 7A1569
Braced frames with hysteretic dissipative devices: Seismic response and design criteria, J Earthquake Eng **3**(1) 33-57 (Jan 1999), 7A1570
New method for reduced-order feedback control using genetic algorithms, Earthquake Eng Struct Dyn **28**(3) 235-254 (Mar 1999), 8A115
Modal analysis of rotor on piecewise linear journal bearings under seismic excitation, J Vib Acoust **121**(2) 190-196 (Apr 1999), 8A169
Aseismic roof isolation system: Analytic and shake table studies, Earthquake Eng Struct Dyn **28**(3) 217-234 (Mar 1999), 8A182
Seismic vulnerability evaluation of a 32-story reinforced concrete building, Struct Eng and Mech **7**(1) 1-18 (Jan 1999), 8A865
Characterization of story-level seismic damage using an energy-based damage model, Exp Mech **39**(1) 53-61 (Mar 1999), 8A1500
Dynamic response of wood-frame shear walls with viscoelastic dampers, Earthquake Spectra **15**(1) 67-86 (Feb 1999), 8A1501
Effects of prior earthquake damage on response of simple stiffness-degrading structures, Earthquake Spectra **15**(1) 1-24 (Feb 1999), 8A1502
FRC-steel joist composite frames for seismic resistance, Earthquake Spectra **15**(1) 87-104 (Feb 1999), 8A1503
Inelastic response of one-storey asymmetric-plan systems subjected to bi-directional earthquake motions, Earthquake Eng Struct Dyn **28**(3) 273-285 (Mar 1999), 8A1504
Overall evaluation of irregular-floor-plan: Shaped buildings located in seismic areas, Earthquake Spectra **15**(1) 105-120 (Feb 1999), 8A1505
Seismic strengthening and repair of Byzantine churches, J Earthquake Eng **3**(2) 199-235 (Apr 1999), 8A1506
Statistical analysis of bridge damage data from the 1994 Northridge, CA earthquake, Earthquake Spectra **15**(1) 25-33 (Feb 1999), 8A1507
Spatial ground motion effect on relative displacement of adjacent building structures, Earthquake Eng Struct Dyn **28**(4) 333-349 (Apr 1999), 9A184
Stochastic seismic response of multiply-supported secondary systems in flexible-base structures, Earthquake Eng Struct Dyn **28**(4) 351-369 (Apr 1999), 9A1496
Seismic risk analysis of mega-floating structure and dolphin system, J Offshore Mech Arctic Eng **121**(2) 95-101 (May 1999), 9A1497
Evaluation of a seismic damage parameter, Earthquake Eng Struct Dyn **28**(5) 463-477 (May 1999), 10A131
Influence of stiffness and strength eccentricities on the inelastic earthquake response of asymmetric structures, Eng Struct **21**(9) 856-863 (Sep 1999), 10A999
Effects of engineering geological condition on response of suspension bridges, Soil Dyn Earthquake Eng **18**(4) 297-304 (Jun 1999), 10A1553
Effects of structural walls on the elastic-plastic earthquake responses of frame-wall buildings, Earthquake Eng Struct Dyn **28**(5) 479-500 (May 1999), 10A1554
Nonlinear seismic response of steel structures with semi-rigid and composite connections, J Construct Steel Res **51**(1) 37-59 (Jul 1999), 10A1555
Optimization of cable-stayed bridges subjected to earthquakes with nonlinear behavior, Eng Optim **31**(4) 457-478 (Mar 1999), 10A1556
Seismic analysis and design of rigid bridge abutments considering rotation and sliding incorporating nonlinear soil behavior, Soil Dyn Earthquake Eng **18**(4) 247-277 (Jun 1999), 10A1557
Statistics of ordered peaks in the response of nonclassically damped structures, Probab Eng Mech **14**(4) 329-337 (Oct 1999), 11A167
Predictive optimal control for seismic analysis of nonlinear and hysteretic structures, Earthquake Eng Struct Dyn **28**(6) 585-607 (Jun 1999), 11A183
Real-time structural parameter modification (RSPM) approach for random vibration reduction - Part I: Principle, Probab Eng Mech **14**(4) 349-362 (Oct 1999), 11A184
Real-time structural parameter modification, approach for random vibration reduction - Part II: Experimental verification, Probab Eng Mech **14**(4) 363-381 (Oct 1999), 11A185
Nonlinear seismic analysis of a reinforced concrete shear wall, J Struct Eng (India) **25**(4) 221-225 (Jan 1999), 11A904
Nonlinear seismic analysis of base-isolated RC frame structures, Earthquake Eng Struct Dyn **28**(6) 633-653 (Jun 1999), 11A1569
Seismic analysis of infilled frames, J Struct Eng (India) **25**(2) 95-102 (Jul 1998), 11A1570
Earthquake Engineering (Balkema, Rotterdam, Netherlands, 1998) 12N36
Hybrid control research on earthquake responses of high-rise building with spacious first story (Chinese), J Vib Eng **12**(2) 256-261 (Jun 1999), 12T908
Ritz vector approach for evaluating incabinet response spectra, Nucl Eng Des **190**(3) 255-272 (Jun 1999), 12A1536

456G. Design criteria

Ductility reduction factor in the seismic design of buildings, Earthquake Eng Struct Dyn **27**(7) 749-769 (Jul 1998), 1A1447
Seismic response of steel frame buildings to near-source ground motions, Earthquake Eng Struct Dyn **27**(12) 1445-1464 (Dec 1998), 5A1488
Formulation of elastic earthquake input energy spectra, Earthquake Eng Struct Dyn **27**(12) 1503-1522 (Dec 1998), 5A1491
Soil reinforcement for seismic design of geotechnical structures, Comput Geotech **23**(1-2) 1-17 (1998), 6A748
Compressional and shear velocity structure of the lithosphere in northern Iceland, Bull Seismol Soc Am **88**(6) 1561-1571 (Dec 1998), 6A1480
Braced frames with hysteretic dissipative devices: Seismic response and design criteria, J Earthquake Eng **3**(1) 33-57 (Jan 1999), 7A1570
Displacement design spectra, J Earthquake Eng **3**(1) 107-125 (Jan 1999), 7A1571
Displacement spectra for seismic design, J Earthquake Eng **3**(1) 1-32 (Jan 1999), 7A1572
Seismic design of open-story infilled RC buildings, J Earthquake Eng **3**(2) 173-197 (Apr 1999), 8A864
Evaluation of the total ductility in steel structures through a nonconvex energy optimization approach, Eng Struct **21**(9) 810-822 (Sep 1999), 10A1009
Evaluation of behavior factors on the basis of ductility and overstrength studies, Eng Struct **21**(9) 823-835 (Sep 1999), 10A1558
Seismic design approaches of passive energy dissipation systems (Chinese), J Vib Eng **12**(2) 202-209 (Jun 1999), 12T1537

456H. Seismic hydrodynamics

Research on hydrodynamic interaction of concrete face rockfill dams and water systems (Chinese), J Dalian Univ Tech **38**(6) 717-723 (Nov 1998), 8A1508
High-velocity flow in a rough fracture, J Fluid Mech **383** 1-28 (Mar 1999), 10A1125

456I. Tsunamis

Practical Tsunami numerical simulation model by use of nonlinear dispersive long wave theory (Japanese), Proc JSCE **600**(II-44) 119-124 (Aug 1998), 4A1500
Effects of low sound velocity and gravity on wave propagation in oceanic structure (Japanese), Proc JSCE **605**(I-45) 153-160 (Oct 1998), 6A1503

456J. Simulation

Physical model of the effect of a shallow weak layer on strong ground motion for strike-slip ruptures, Bull Seismol Soc Am **88**(4) 1070-1078 (Aug 1998), 2A1457
Efficient simulation of constant Q using coarse-grained memory variables, Bull Seismol Soc Am **88**(4) 1051-1062 (Aug 1998), 2A1474
Evolutionary programming method for estimating layered velocity structure, Bull Seismol Soc Am **88**(4) 1023-1035 (Aug 1998), 2A1475
Influence of viscous coupling on seismic reflection and transmission in saturated porous media, Bull Seismol Soc Am **88**(5) 1289-1299 (Oct 1998), 4A1481
Modeling dynamic rupture in a 3D earthquake fault model, Bull Seismol Soc Am **88**(5) 1182-1197 (Oct 1998), 4A1501
Using GIS in the probabilistic assessment of earthquake triggered landslide hazards, J Earthquake Eng **2**(4) 593-623 (Oct 1998), 5A1477
Dynamics of thrust faulting: 2D lattice model, Bull Seismol Soc Am **88**(6) 1484-1494 (Dec 1998), 6A1504
Far-field radiated energy scaling in elastodynamic earthquake fault models, Bull Seismol Soc Am **88**(6) 1457-1465 (Dec 1998), 6A1505
Spectral parameters of the ground motions in Caucasian seismogenic zones, Bull Seismol Soc Am **88**(6) 1438-1444 (Dec 1998), 6A1506
Stochastic finite-fault modeling of ground motions from the 1994 Northridge, California, earthquake - I: Validation on rock sites, Bull Seismol Soc Am **88**(6) 1392-1401 (Dec 1998), 6A1507
Stochastic finite-fault modeling of ground motions from the 1994 Northridge, California, earthquake - II: Widespread nonlinear response at soil sites, Bull Seismol Soc Am **88**(6) 1402-1410 (Dec 1998), 6A1508
Three-dimensional simulation of near-field strong ground motion based on dynamic modeling, Bull

Seismol Soc Am **88**(6) 1445-1456 (Dec 1998), 6A1509

Moment tensor solutions of the 1994 to 1996 double spring flat, Nevada, earthquake sequence and implications for local tectonic models, Bull Seismol Soc Am **88**(6) 1363-1378 (Dec 1998), 6A1511

Semi-empirical method for simulating strong ground motions based on variable-slip rupture models for large earthquakes, Bull Seismol Soc Am **89**(1) 36-53 (Feb 1999), 8A1482

Empirical Green's functions: A comparison between pulse width measurements and deconvolution by spectral division, Bull Seismol Soc Am **89**(1) 178-189 (Feb 1999), 8A1486

Application of wavelets to analysis and simulation of earthquake motion, Earthquake Eng Struct Dyn **28**(3) 255-272 (Mar 1999), 8A1509

Beginning of earthquakes modeled with the Griffith's fracture criterion, Bull Seismol Soc Am **89**(1) 80-93 (Feb 1999), 8A1510

Using a genetic algorithm to model broadband regional waveforms for crustal structure in the Western United States, Bull Seismol Soc Am **89**(1) 202-214 (Feb 1999), 8T1511

Application of parallel computing for the analysis of seismic energy in the coda of regional earthquakes (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 539-555 (1998), 9A1491

"Parametric-historic" procedure for probabilistic seismic hazard analysis - Part II: Assessment of seismic hazard at specified site, Pure Appl Geophys **154**(1) 1-22 (Feb 1999), 9A1498

Estimation of mining tremor occurrence by using neural networks, Pure Appl Geophys **154**(1) 57-72 (Feb 1999), 9A1499

Using neural networks to discriminate between genuine and spurious seismic events in mines, Pure Appl Geophys **154**(1) 41-56 (Feb 1999), 9A1500

Disaggregation of seismic hazard, Bull Seismol Soc Am **89**(2) 501-520 (Apr 1999), 10A1522

Methodology for using precarious rocks in Nevada to test seismic hazard models, Bull Seismol Soc Am **89**(2) 456-467 (Apr 1999), 10A1559

Stochastic method for investigating site effects by means of a borehole array-SH and love waves, Bull Seismol Soc Am **89**(2) 484-500 (Apr 1999), 10A1560

Artificial neural network approach for broadband seismic phase picking, Bull Seismol Soc Am **89**(3) 670-680 (Jun 1999), 11A1571

Generic finite-fault model for ground-motion prediction in eastern North America, Bull Seismol Soc Am **89**(3) 608-625 (Jun 1999), 11A1572

Mutually consistent seismic-hazard source model for southern California, Bull Seismol Soc Am **89**(3) 559-578 (Jun 1999), 11A1573

Three-dimensional finite-difference simulations of long-period strong motions in the Tokyo metropolitan area during the 1990 Odawara Earthquake (M_J 5.1) and the great 1923 Kanto earthquake (M_s 8.2) in Japan, Bull Seismol Soc Am **89**(3) 579-607 (Jun 1999), 11A1574

456Y. Computational techniques

Hybrid numerical technique, combining the FE and BEMs, for modeling the 3D response of 2D scatterers, Bull Seismol Soc Am **88**(4) 1036-1050 (Aug 1998), 2A37

Maximum spectral energy for seismic magnitude estimation - Part I: Rayleigh-wave magnitude, Bull Seismol Soc Am **88**(4) 952-962 (Aug 1998), 2A1456

Estimation of strength-reduction factors for elastoplastic systems: A new approach, Earthquake Eng Struct Dyn **27**(9) 889-901 (Sep 1998), 2A1476

Note on the statistics of ordered peaks in stationary stochastic processes, Soil Dyn Earthquake Eng **17**(5) 317-328 (Jul 1998), 2A1477

Statistical estimation of corner frequency and its application to seismic event-identification, Soil Dyn Earthquake Eng **17**(5) 297-309 (Jul 1998), 2A1478

Relative performance of spectrum superposition methods considering modal interaction effects, Soil Dyn Earthquake Eng **17**(6) 357-369 (Aug 1998), 3A204

Cross-axis sensitivity of accelerographs with pendulum like transducers: Mathematical model and the inverse problem, Earthquake Eng Struct Dyn **27**(10) 1031-1051 (Oct 1998), 3T1463

Nonstationary Bayesian kriging: A predictive technique to generate spatial corrections for seismic detection, location, and identification, Bull Seismol Soc Am **88**(5) 1275-1288 (Oct 1998), 4A1483

Computation of differential seismograms for point and plane scatterers in layered media, Bull Seismol Soc Am **88**(5) 1311-1324 (Oct 1998), 4A1485

Making the most of the recordings from short-period seismometer arrays, Bull Seismol Soc Am **88**(5) 1155-1170 (Oct 1998), 4A1502

Blind deconvolution methodology for site-response evaluation exclusively from ground-surface seismic recordings, Soil Dyn Earthquake Eng **18**(1) 47-57 (Jan 1998), 6A1510

Moment tensor solutions of the 1994 to 1996 double spring flat, Nevada, earthquake sequence and implications for local tectonic models, Bull Seismol Soc Am **88**(6) 1363-1378 (Dec 1998), 6A1511

Spectral inversion of Lg from earthquakes: A modified method with applications to the 1995, Western Texas earthquake sequence, Bull Seismol Soc Am **88**(6) 1525-1537 (Dec 1998), 6A1512

Statistical analysis of irregular wave-guide influences on regional seismic discriminants in China: Additional results for Pn-Sn, Pn-Lg, and Pg-Sn, Bull Seismol Soc Am **88**(6) 1504-1510 (Dec 1998), 6A1513

Simplified method for estimating maximum shear stress in the ground during earthquakes (Japanese), Proc JSCE **610**(III45) 83-96 (Dec 1998), 7A1563

Three-dimensional displacement finite differences and a combined memory optimization, Bull Seismol Soc Am **89**(1) 69-79 (Feb 1999), 8A1487

Bounded convex model with two spectrum-parameters for worst response to earthquake (Chinese), J Xi'an Jiaotong Univ **33**(2) 46-49 (1999), 8A1512

S-wave velocity models in the Scotia Sea Region, Antarctica, from nonlinear inversion of Rayleigh waves dispersion, Pure Appl Geophys **154**(1) 121-139 (Feb 1999), 9A1501

Stochastic method for investigating site effects by means of a borehole array-SH and love waves, Bull Seismol Soc Am **89**(2) 484-500 (Apr 1999), 10A1560

Source-receiver reciprocity and empirical Green's functions from chemical blasts, Bull Seismol Soc Am **89**(2) 538-543 (Apr 1999), 10A1562

Simple orthonormalization method for stable and efficient computation of Green's functions, Bull Seismol Soc Am **89**(3) 733-741 (Jun 1999), 11A119

Multi-wavelet analysis of three-component seismic arrays: Application to measure effective anisotropy at Pinon Flats, California, Bull Seismol Soc Am **89**(3) 693-705 (Jun 1999), 11A1555

Multi-channel estimation of time residuals from broadband seismic data using multi-wavelets, Bull Seismol Soc Am **89**(3) 681-692 (Jun 1999), 11A1575

456Z. Experimental methods

Note on the extension of the SES sensitive area at Ioannina Station, Greece, Acta Geophys Polonica **46**(1) 54-60 (1998), 1T1449

Damage localization and quantification of earthquake excited RC-frames, Earthquake Eng Struct Dyn **27**(9) 903-916 (Sep 1998), 2A1479

Making the most of the recordings from short-period seismometer arrays, Bull Seismol Soc Am **88**(5) 1155-1170 (Oct 1998), 4A1502

Reliability and applicability of Nakamura's technique using microtremors: An experimental approach, J Earthquake Eng **2**(4) 625-638 (Oct 1998), 5A1492

Seismic signal strength of chemical explosions, Bull Seismol Soc Am **88**(6) 1511-1524 (Dec 1998), 6A240

Comparison of standard and ring laser rotational seismograms, Bull Seismol Soc Am **88**(6) 1495-1503 (Dec 1998), 6A1514

Evidence from a cluster of small earthquakes for a fault at 18 km depth beneath Oak Ridge, Southern California, Bull Seismol Soc Am **88**(6) 1327-1336 (Dec 1998), 6A1515

GPS monitoring of dynamic behavior of long-period structures, Earthquake Spectra **15**(1) 55-66 (Feb 1999), 8A202

Deconvolution of teleseismic body waves for enhancing structure beneath a seismometer array, Bull Seismol Soc Am **89**(1) 190-201 (Feb 1999), 8A1479

Basin waves on a seafloor recording of the 1990 Upland, California, Earthquake: Implications for ground motions from a larger earthquake, Bull Seismol Soc Am **89**(1) 317-324 (Feb 1999), 8T1496

Analysis of earthquake recordings obtained from the seafloor earthquake measurements system instruments deployed off the coast of Southern California, Bull Seismol Soc Am **89**(1) 260-274 (Feb 1999), 8A1513

Continuous monitoring of ground-motion parameters, Bull Seismol Soc Am **89**(1) 311-316 (Feb 1999), 8A1514

Outlier detection from a mixture distribution when training data are unlabeled, Bull Seismol Soc Am **89**(1) 294-304 (Feb 1999), 8A1515

Seismic transmission tomography a configurative approach, Acta Geophys Polonica **46**(4) 388-409 (1998), 10A1521

Seismic signals and noise recorded on a seafloor vertical hydrophone array and a collocated OBS during the LFASE experiment, Bull Seismol Soc Am **89**(2) 423-432 (Apr 1999), 10T1561

Source-receiver reciprocity and empirical Green's functions from chemical blasts, Bull Seismol Soc Am **89**(2) 538-543 (Apr 1999), 10A1562

Three-dimensional seismic survey design for linear v(z) media, Geophys **64**(2) 486-493 (Mar-Apr 1999), 10A1563

Automated local and regional seismic event detection and location system using waveform correlation, Bull Seismol Soc Am **89**(3) 657-669 (Jun 1999), 11A1576

Inversion of travel-time data for earthquake locations and 3D velocity structure in the Eureka Valley area, eastern California, Bull Seismol Soc Am **89**(3) 796-810 (Jun 1999), 11A1577

Obturator and detonation experiments in the subdetonative ram accelerator, Shock Waves **9**(3) 181-191 (Jun 1999), 12A242

458. HYDROLOGY, OCEANOLOGY, METEOROLOGY

458B. Hydrology

Wave run-up on gentle slopes: A hybrid approach, Arch Hydro-Eng Env Mech **43**(1-4) 79-89 (1996), 1A1450

Estimation of co-conditional moments of transmissivity, hydraulic head, and velocity fields, Adv Water Resources **22**(1) 87-95 (Sep 1998), 3A1440

Hydrograph parameterization through the use of Hermitian interpolation (Spanish), Ingenieria Hidraul Mex **13**(3) 19-28 (Sep-Dec 1998), 3T1470

Monitoring groundwater dynamics in the littoral zone at seasonal, storm, tide and swash frequencies, Coastal Eng **35**(1-2) 1-16 (Oct 1998), 5T1445

Stochastic differential dynamic programming for multi-reservoir system control, Stochastic Hydrology Hydraul **12**(4) 247-266 (Oct 1998), 5A1462

Efficient probabilistic FEM for stochastic groundwater flow, Adv Water Resources **22**(2) 185-195 (Oct 1998), 5A1464

Stochastic model of water-table elevation, Stochastic Hydrology Hydraul **12**(4) 223-245 (Oct 1998), 5T1493

Higher-order approximation techniques for estimating stochastic parameter of a sediment transport model, Stochastic Hydrology Hydraul **12**(6) 359-375 (Dec 1998), 6T1163

Recent advancement of groundwater hydraulics in underground space technology, J Hydraul Res **36**(6) 963-978 (1998), 6A1170

Quantifying the exchange rate between groundwater and small streams, J Hydraul Res **36**(6) 913-932 (1998), 6A1456

Travel time analysis of tracers and reactive solutes in the unsaturated zone, J Hydraul Res **36**(6) 979-1002 (1998), 6A1457

Analytical stochastic solutions of saltwater-freshwater interface in coastal aquifers, Stochastic Hydrology Hydraul **12**(6) 413-430 (Dec 1998), 6A1516

High performance computing as a tool for groundwater cleanup, J Hydraul Res **36**(6) 897-912 (1998), 6A1517

Minimum relative entropy and probabilistic inversion in groundwater hydrology, Stochastic Hydrology Hydraul **12**(5) 317-358 (Nov 1998), 6T1518

Calculation of humidity during evaporation from soil, Adv Water Resources **22**(5) 495-505 (Jan 1999), 7T1573

Soil water content measurement using the principle of Galvanic Cell (Czech), J Hydrology and Hydromech **46**(6) 427-431 (1998), 7T1574

Data assimilation in a wave equation: A variational representer approach for the Grenoble tidal model, J Comput Phys **149**(1) 1-31 (Feb 1999), 7T1579

Choice of soil hydraulic models in land-surface schemes, Boundary-Layer Meteorol **90**(1) 83-115 (Jan 1999), 8T1516

Grid generating algorithm for simulating a fluctuating water table boundary in heterogeneous unconfined aquifers, Adv Water Resources **22**(6) 567-575 (Feb 1999), 8T1517

Influence of gravity on nonlinear transport in the planar Couette flow, Phys Fluids **11**(4) 893-904 (Apr 1999), 8T1518

Propagation of oceanic mesoscale vortices, J Fluid Mech **380** 39-57 (Feb 1999), 8A1519

Uncertainty in water management (Polish), J Hydrology and Hydromech **47**(1) 3-25 (1999), 8T1520

Experimental study of river turbulence under unsteady conditions, Acta Geophys Polonica **46**(4) 461-480 (1998), 10T1564

Parallel global optimization for optimal flood control, Acta Geophys Polonica **47**(1) 93-109 (1999), 10T1565

Small scale dayside magnetospheric convection observed from image magnetometer network data, Acta Geophys Polonica **47**(2) 215-222 (1999), 11A1578

Influence of cosmogenic factors on groundwater regime, J Hydrology and Hydromech **47**(3) 208-222 (1999), 12A1538

Model calibration and reliability evaluation for ground-water systems, Adv Water Resources **22**(8) 775-776 (Jun 1999), 12T1539

458C. Physical oceanography (currents, waves, etc)

Fluid transport by dipolar vortices, Dyn Atmos Oceans **28**(2) 93-105 (Aug 1998), 2T1078

Assessing the European Wave Energy resource, J Offshore Mech Arctic Eng **120**(4) 226-231 (Nov 1998), 2A1480

Evaluation of methods for numerical simulation of wetting and drying in shallow water flow models, Coastal Eng **34**(1-2) 83-107 (Jul 1998), 2T1481

Generation of internal waves over a shelf, Dyn Atmos Oceans **28**(2) 107-125 (Aug 1998), 2A1482

Sea-bottom profile: Remote determination problem in geometrical approach, Acta Phys Polonica A **93**(S) 41-54 (1998), 2T1483

Tidal flow modeling using a direct minimization method, Coastal Eng **34**(1-2) 129-161 (Jul 1998), 2A1484

Instabilities of the undertow, J Fluid Mech **369** 175-190 (Aug 1998), 3A245

Resonant scattering of edge waves by longshore periodic topography, J Fluid Mech **369** 91-123 (Aug 1998), 3A248

Nonlinear analysis of undrained cyclic strength of soft marine clay, Ocean Eng **26**(3) 241-253 (Mar 1999), 3T851

Influence of rotation on shelf convection, J Fluid Mech **369** 23-48 (Aug 1998), 3A1161

Characteristics of quadrant and octant advection schemes in wave models, Coastal Eng **34**(3-4) 221-242 (Sep 1998), 3T1471

Directional spreading of waves in the nearshore zone, Ocean Eng **26**(2) 161-188 (Feb 1999), 3T1472

Estimation of extreme wave heights using GEOSAT measurements, Ocean Eng **26**(3) 205-225 (Mar 1999), 3T1473

Estimation of wave directional spreading in shallow water, Ocean Eng **26**(1) 83-98 (Jan 1999), 3T1474

Hydrodynamic model of a quasi-steady 2D front, Tellus **50A**(4) 507-524 (Aug 1998), 3A1475

Hyperbolic mild-slope equations extended to account for rapidly varying topography, Coastal Eng **34**(3-4) 243-257 (Sep 1998), 3T1476

Real time wave forecasting using neural networks, Ocean Eng **26**(3) 191-203 (Mar 1999), 3T1477

Weakly nonlinear shear waves, J Fluid Mech **372** 71-91 (Oct 1998), 4A1458

Boundary conforming structured grid for global ocean circulation studies, Int J Numer Methods Fluids **28**(5) 761-788 (Oct 1998), 4A1503

Case study of the generation of irregular sea waves, J Vib and Control **4**(6) 659-672 (Nov 1998), 4A1504

Fluctuation growth and instability associated with a singularity of the balance equations, Phys Fluids **10**(10) 2587-2596 (Oct 1998), 4A1505

Formation of tidal fronts in coastal seas, J Hydrodyn **10**(3) 17-28 (1998), 4T1506

Modeling of shear-induced diapycnal mixing in frontal systems, Appl Sci Res **59**(2-3) 159-175 (1997), 4A1507

Efficient computational model for water wave propagation in coastal regions, Appl Ocean Res **20**(5) 263-271 (Oct 1998), 4T1518

Long wave runup on piecewise linear topographies, J Fluid Mech **374** 1-28 (Nov 1998), 5A224

Depth inversion in shallow water based on nonlinear properties of shoaling periodic waves, Coastal Eng **35**(3) 185-209 (Nov 1998), 5T227

Status of measurement techniques for coastal sediment transport, Coastal Eng **35**(1-2) 17-45 (Oct 1998), 5A930

Interaction between two oppositely signed, shielded, monopolar vortices, Phys Fluids **10**(12) 3099-3110 (Dec 1998), 5T939

Monitoring groundwater dynamics in the littoral zone at seasonal, storm, tide and swash frequencies, Coastal Eng **35**(1-2) 1-16 (Oct 1998), 5T1445

Analytic solution to the wave bottom boundary layer governing equation under arbitrary wave forcing, Ocean Eng **26**(7) 595-623 (Jul 1999), 5T1494

Breakdown of large-scale flows in rotating, stratified fluids, Phys Fluids **10**(12) 3178-3184 (Dec 1998), 5A1495

Possible mechanism of anomalous diffusion by Rossby waves, Phys Fluids **10**(12) 3185-3193 (Dec 1998), 5A1496

Propagation of Kelvin waves along irregular coastlines in finite-difference models, Adv Water Resources **22**(3) 239-245 (Nov 1998), 5T1497

Short term forecasting of the sea surface shape, Int Shipbuild Prog **45**(444) 383-400 (Dec 1998), 5A1498

Spectral analysis of symmetric operators: Application to the Laplace tidal model, J Comput Phys **147**(1) 1-21 (Nov 1998), 5T1499

Vortex crystals and non-existence of non-axisymmetric solitary waves in the Flierl-Petviashvili equation, Chaos Solitons Fractals **9**(12) 2007-2021 (Dec 1998), 5A1500

Flow and entrapment of dense nonaqueous phase liquids in physically and chemically heterogeneous

aquifer formations, Adv Water Resources **22**(2) 117-132 (Oct 1998), 5T1501
Nonlinear self-interaction of a baroclinic Rossby mode in a channel and a gulf, Dyn Atmos Oceans **28**(3-4) 139-155 (Nov 1998), 6T243
Finite-amplitude topographic Rossby waves in a channel, Phys Fluids **11**(1) 107-120 (Jan 1999), 6A252
Sand ripples in an oscillating annular sand-water cell, Phys Fluids **11**(1) 58-67 (Jan 1999), 6A1164
Baroclinic instability in a three layer flow: A wave approach, Dyn Atmos Oceans **28**(3-4) 179-204 (Nov 1998), 6T1264
Analytical stochastic solutions of saltwater-freshwater interface in coastal aquifers, Stochastic Hydrology Hydraul **12**(6) 413-430 (Dec 1998), 6A1516
Determination of directional wave spectra for practical applications, Appl Ocean Res **20**(6) 357-374 (Dec 1998), 6T1519
Rainfall on the sea: Surface renewals and wave damping, Boundary-Layer Meteorol **89**(2) 349-355 (Nov 1998), 6T1520
Estimating directional distribution for co-existent field of incident and reflected waves, China Ocean Eng **12**(3) 353-358 (1998), 7T234
Transport by coherent barotropic vortices, Annu Rev Fluid Mech **31** 55-93 (1999), 7A959
Numerical methods for the solution of the turbulence energy equations in shelf seas, Int J Numer Methods Fluids **29**(2) 193-206 (Jan 1999), 7A1575
Tides and earth rotation, Surveys Geophys **19**(5) 417-430 (1998), 7A1576
Bifurcation of traveling waves resulting from resonant mode crossings in oceanic currents, Eur J Mech B **18**(1) 35-46 (Jan-Feb 1999), 8A92
Application of a Boussinesq model for the computation of breaking waves - Part 1: Development and verification, Ocean Eng **26**(10) 905-925 (Oct 1999), 8T236
Variational methods and nonlinear quasigeostrophic waves, Phys Fluids **11**(4) 875-879 (Apr 1999), 8A248
Submaximal exchange between a convectively forced basin and a large reservoir, J Fluid Mech **378** 357-378 (Jan 1999), 8A977
Cyclone and anticyclone formation in a rotating stratified fluid over a sloping bottom, J Fluid Mech **381** 199-223 (Feb 1999), 8A1020
Application of a Boussinesq model for the computation of breaking waves - Part 2: Wave-induced setdown and setup on a submerged coral reef, Ocean Eng **26**(10) 927-947 (Oct 1999), 8T1521
Brewer-Dobson circulation: Dynamics of the tropical upwelling, J Atmos Sci **56**(6) 868-890 (Mar 1999), 8T1522
Eddy fluxes and topography in stratified quasi-geostrophic methods, J Fluid Mech **380** 59-80 (Feb 1999), 8A1523
Evolution of two-layer thermohaline systems under surface cooling, J Fluid Mech **380** 117-140 (Feb 1999), 8A1524
Prediction of extreme sea-state encountered by oceangoing vessels, China Ocean Eng **12**(4) 483-487 (1998), 8T1525
Rossby-100 Symposium, Tellus **51A-B**(1) 4-146 (Jan-Feb 1999), 8A1526
Uncertainty of the sea state parameters resulting from the methods of spectral estimation, Ocean Eng **26**(10) 991-1002 (Oct 1999), 8T1527
Estimating extremes in an evolving wave field, Coastal Eng **36**(2) 147-163 (Mar 1999), 9T253
Bivariate distribution of wave heights and periods in mixed sea states, J Offshore Mech Arctic Eng **121**(2) 102-108 (May 1999), 9A1502
Intensity-duration-frequency summaries for wave climate, Coastal Eng **36**(1) 37-58 (Feb 1999), 9T1503
Note on a baroclinic analogue of vorticity defects in shear, J Fluid Mech **382** 367-373 (Mar 1999), 9A1504
Spectral model for unidirectional nonlinear wave propagation over arbitrary depths, Coastal Eng **36**(1) 1-16 (Feb 1999), 9T1505
Stability and nonlinear dynamics of ocean-like wave systems with energy continuously distributed in direction, J Eng Math **35**(1-2) 59-70 (Feb 1999), 9A1506
Validity of layered models of ocean dynamics and thermodynamics with reduced vertical resolution, Dyn Atmos Oceans **29**(1) 1-40 (Mar 1999), 9T1512
Weibull-Stokes model for the distribution of maximum wave and crest heights, Int J Offshore Polar Eng **8**(2) 90-101 (Jun 1998), 10A280
Flux parameterization including the effects of capillary waves and sea state, J Atmos Sci **56**(9) 1123-1139 (May 1999), 10T284
Relation between wave length and wave period distributions in random Gaussian waves, Int J Offshore Polar Eng **8**(4) 258-264 (Dec 1998), 10A287
Universal linear system model for storm sea loads on column, Int J Offshore Polar Eng **9**(1) 48-54 (Mar 1999), 10A318
Thermobaric production of potential vorticity in the ocean, Tellus **51A**(2) 314-325 (Mar 1999), 10T1566
Relationships between the mean wavelength and wave-period of wind waves in deep water, Appl Ocean Res **21**(3) 127-131 (Jun 1999), 11T270
Statistical properties of successive wave periods, J Offshore Mech Arctic Eng **121**(3) 166-171 (Aug 1999), 11A271
Morphodynamic model to simulate the seasonal closure of tidal inlets, Coastal Eng **37**(1) 1-36 (Jun 1999), 11T1089
Stochastic response analysis of deepwater structures in short-crested random seas, J Offshore Mech Arctic Eng **121**(3) 181-186 (Aug 1999), 11A1289
Development and evaluation of a convection scheme for use in climate models, J Atmos Sci **56**(11) 1766-1782 (Jun 1999), 11T1579
Estimating bimodal frequency-direction spectra from surface buoy data recorded during tropical cyclones, J Offshore Mech Arctic Eng **121**(3) 172-180 (Aug 1999), 11A1580
Generalized stability analyses of asymmetric disturbances in one- and two-celled vortices maintained by radial inflow, J Atmos Sci **56**(10) 1282-1307 (May 1999), 11T1581
Implication of a theorem for a class of quasi-geostrophic flows, J Atmos Sci **56**(10) 1424-1426 (May 1999), 11A1582
Joint distribution of wave heights and periods: The role of the spectral bandwidth, J Offshore Mech Arctic Eng **121**(3) 187-193 (Aug 1999), 11A1583
Next-order corrections to quasigeostrophic theory, J Atmos Sci **56**(11) 1547-1560 (Jun 1999), 11A1584
Seasonal closure of tidal inlet - Wilson Inlet: A case study, Coastal Eng **37**(1) 37-56 (Jun 1999), 11T1585
Simple criterion for the sign of the pseudomomentum of modes in shallow water systems, J Fluid Mech **387** 343-352 (May 1999), 11A1586
Three-dimensional vortical nature of atmospheric and oceanic turbulent flows, Phys Fluids **11**(6) 1512-1520 (Jun 1999), 11T1587
Further discussion related to "A formal derivation and numerical modeling of the improved Boussinesq equations for varying depth" by Beji and Nadaoka, Ocean Eng **26**(11) 1057-1062 (Nov 1999), 12T213
Vortex generation by line plumes in a rotating stratified fluid, J Fluid Mech **388** 289-313 (Jun 1999), 12A1067
Numerical study of an operator splitting method for rotating flows with large ageostrophic initial data, Theor Comput Fluid Dyn **13**(2) 143-159 (Jun 1999), 12A1096
Application of maximum entropy principle method to the study of statistical properties of random waves, China Ocean Eng **13**(1) 21-30 (1999), 12T1540
Asymptotic form of the spectrum of tidal Kelvin waves trapped by a boundary at large values of the Lamb parameter, J Appl Math Mech **63**(1) 41-44 (1999), 12A1541
Parabolic equations for gravity and acousto-gravity waves, J Acoust Soc Am **105**(6) 3049-3056 (Jun 1999), 12A1542
Planetary waves in a stratified ocean at variable depth - Part 1: Two-layer model, J Fluid Mech **388** 115-145 (Jun 1999), 12A1543
Three-dimensional multi-level turbulence model for tidal motion, Ocean Eng **26**(11) 1023-1038 (Nov 1999), 12T1544
Two modes of thermohaline circulation stable?, Tellus **51A**(3) 400-411 (May 1999), 12T1545
Critical layer instability as a resonance between a non-singular mode and continuous modes, Fluid Dyn Res **25**(2) 63-86 (Aug 1999), 12A1546

458D. Heat transfer in H and O

Flow and entrapment of dense nonaqueous phase liquids in physically and chemically heterogeneous aquifer formations, Adv Water Resources **22**(2) 117-132 (Oct 1998), 5T1501
Thermodynamics of Atmospheres and Oceans (Academic Press, San Diego CA, 1999) 9R40
Large-eddy simulation and parametrization of the effects of shear on shallow cumulus convection, Boundary-Layer Meteorol **91**(1) 65-80 (Apr 1999), 12T1557

458E. Computational techniques in H and O

Variational method for the resolution of a data assimilation problem in oceanography, Inverse Prob **14**(4) 979-997 (Aug 1998), 2A1485
Modeling of shear-induced diapycnal mixing in frontal systems, Appl Sci Res **59**(2-3) 159-175 (1997), 4A1507
Testing moderately parallel environments for an ocean modeling application, J Sci Comput **13**(2) 185-200 (Jun 1998), 4A1508
Numerical Methods for Nonlinear Waves in Geophysical Fluid Dynamics (Springer-Verlag, New York, 1998) 5R38
Accuracy and stability of the discretized isopycnal-mixing equation, Appl Math Lett **12**(4) 81-88 (May 1999), 9A1507
Nonlinear optimal control problem for assimilation of surface data in Navier-Stokes type equations related to oceanography, Numer Functional Anal Optimization **20**(1-2) 1-26 (1999), 9A1508
Mixed formulation of the two-layer quasi-geostrophic equations of the ocean, Numer Methods PDE **15**(4) 489-502 (Jul 1999), 11A1588

458G. Physical meteorology

Approximate modeling of long wavelength magnetic anomalies, Acta Geophys Polonica **46**(1) 69-76 (1998), 1T1451
Relations between hourly monthly median values of foF2 and some geophysical indices: Their application to an ionospheric single station model, Acta Geophys Polonica **46**(1) 76-88 (1998), 1A1452
Search for ground signatures of transient events at the magnetopause: Database and preliminary results, Acta Geophys Polonica **46**(1) 89-114 (1998), 1T1453
Case study of Rayleigh-Benard convection with clouds, Boundary-Layer Meteorol **88**(2) 211-237 (Aug 1998), 3T1053
Submodel of the rotational motions of a gas in a uniform force field, J Appl Math Mech **62**(2) 243-251 (1998), 3A1081
Four-dimensional variational assimilation and predictability in a quasi-geostrophic model, Tellus **50A**(4) 369-390 (Aug 1998), 3T1478
Modulation of the mechanism of the semiannual oscillation in the southern hemisphere, Tellus **50A**(4) 442-450 (Aug 1998), 3T1479
Weak existence for the semigeostrophic equations formulated as a coupled Monge-Ampere and transport problem, SIAM J Appl Math **58**(5) 1450-1461 (Oct 1998), 3A1480
Nocturnal boundary-layer regimes, Boundary-Layer Meteorol **88**(2) 255-278 (Aug 1998), 3A1484
Numerical simulations of sea and land breezes at high latitudes, Tellus **50A**(4) 468-489 (Aug 1998), 3T1491
Breakdown of large-scale flows in rotating, stratified fluids, Phys Fluids **10**(12) 3178-3184 (Dec 1998), 5A1495
Possible mechanism of anomalous diffusion by Rossby waves, Phys Fluids **10**(12) 3185-3193 (Dec 1998), 5A1496
Investigation of higher-order closure models for a forested canopy, Boundary-Layer Meteorol **89**(1) 47-74 (Oct 1998), 6T1521
Nonlinear adjustment of a rotating homogeneous atmosphere to zonal momentum forcing, Tellus **50A**(5) 616-636 (Oct 1998), 6T1522
Radiative effects on temperature in the stable surface layer, Boundary-Layer Meteorol **89**(1) 141-159 (Oct 1998), 6A1523
Aerodynamic roughness of urban areas derived from wind observations, Boundary-Layer Meteorol **89**(1) 1-24 (Oct 1998), 6A1526
Transport by coherent barotropic vortices, Annu Rev Fluid Mech **31** 55-93 (1999), 7A959
Spectrum-independent procedure for correcting eddy fluxes measured with separated sensors, Boundary-Layer Meteorol **89**(3) 445-467 (Dec 1998), 7T1581
Kwinana coastal fumigation study - I: Program overview, experimental design and selected results, Boundary-Layer Meteorol **89**(3) 359-384 (Dec 1998), 7T1589
Energy-Casimir and energy-Lagrange methods in the study of nonlinear symmetric stability problems, J Atmos Sci **56**(3) 400-411 (Feb 1999), 8A94
Reflection of planetary waves in 3D tropospheric flows, J Atmos Sci **56**(4) 652-670 (Feb 1999), 8A245
Variational methods and nonlinear quasigeostrophic waves, Phys Fluids **11**(4) 875-879 (Apr 1999), 8A248
Improving the convergence of the modal decomposition of internal waves generated by a moving dipole, J Appl Math Mech **62**(5) 737-742 (1998), 8A249
Wave ducting in a stratified shear flow over a 2D mountain - Part I: General linear criteria, J Atmos Sci **56**(3) 412-436 (Feb 1999), 8T251
Wave ducting in a stratified shear flow over a 2D mountain - Part II: Implications for the development of high-drag states for severe downslope windstorms, J Atmos Sci **56**(3) 437-452 (Feb 1999), 8T252
Rossby-100 Symposium, Tellus **51A-B**(1) 4-146 (Jan-Feb 1999), 8A1526
Climatology of Rossby wave breaking along the subtropical tropopause, J Atmos Sci **56**(3) 359-373 (Feb 1999), 8T1528
Ertel's potential vorticity theorem: On the impermeability theorem for potential vorticity, J Atmos Sci **56**(4) 507-516 (Feb 1999), 8T1529
Lamb's hydrostatic adjustment for heating of finite duration, J Atmos Sci **56**(1) 71-81 (Jan 1999), 8T1530
Linear and nonlinear vortex motion in an asymmetric balance shallow water model, J Atmos Sci **56**(5) 749-768 (Mar 1999), 8A1531
Observational study of wind profiles in the baroclinic convective mixed layer, Boundary-Layer Meteorol **90**(1) 47-82 (Jan 1999), 8T1532
Slow evolution of zonal jets on the beta plane, J Atmos Sci **56**(5) 784-800 (Mar 1999), 8T1533
Stochastic dynamics of El Nino-Southern oscillation, J Atmos Sci **56**(1) 5-23 (Jan 1999), 8T1534
Simple model of concentration fluctuations in neutrally buoyant clouds, Boundary-Layer Meteorol **90**(1) 117-153 (Jan 1999), 8A1562
Constraints on the mean mass transport across potential vorticity contours, J Atmos Sci **56**(7) 942-947 (Apr 1999), 9T1509
Dynamics of elevated vortices, J Atmos Sci **56**(9) 1101-1122 (May 1999), 10A1119
Including radiative effects in an entrainment rate formula for buoyancy-driven PBLs, J Atmos Sci **56**(8) 1031-1049 (Apr 1999), 10A1219
Analytical considerations of Lagrangian cross-equatorial flow, J Atmos Sci **56**(9) 1229-1237 (May 1999), 10T1567
Comparison of various foF2 single station models for European area, Acta Geophys Polonica **47**(1) 77-91 (1999), 10A1568
Dynamics and predictability of Stommel's box model: A phase-space perspective with implications for decadal climate variability, Tellus **51A**(2) 326-336 (Mar 1999), 10T1569
Raindrop charge transport to the earth surface during thunderstorm precipitations, Acta Geophys Polonica **46**(4) 449-459 (1998), 10T1570
Single-station models of ionospheric foF2 parameter usable for prediction and instantaneous mapping, Acta Geophys Polonica **46**(2) 217-227 (1998), 10A1571
Slow manifold for the shallow water equations on the f plane, J Atmos Sci **56**(8) 1050-1054 (Apr 1999), 10T1572
Dynamics, statistics and predictability of a simple limited-area forecasting model, Tellus **51A**(2) 222-232 (Mar 1999), 10T1577
Gravity waves appearing in a high-resolution GCM simulation, J Atmos Sci **56**(8) 1005-1018 (Apr 1999), 10T1578
Development and evaluation of a convection scheme for use in climate models, J Atmos Sci **56**(11) 1766-1782 (Jun 1999), 11T1579
Implication of a theorem for a class of quasi-geostrophic flows, J Atmos Sci **56**(10) 1424-1426 (May 1999), 11A1582
Next-order corrections to quasigeostrophic theory, J Atmos Sci **56**(11) 1547-1560 (Jun 1999), 11A1584
Simple criterion for the sign of the pseudomomentum of modes in shallow water systems, J Fluid Mech **387** 343-352 (May 1999), 11A1586
Three-dimensional vortical nature of atmospheric and oceanic turbulent flows, Phys Fluids **11**(6) 1512-1520 (Jun 1999), 11T1587
Numerical investigation of the Somali jet interaction with the Western Ghat Mountains, Pure Appl Geophys **154**(2) 365-396 (Apr 1999), 11A1589
Numerical study of an operator splitting method for rotating flows with large ageostrophic initial data, Theor Comput Fluid Dyn **13**(2) 143-159 (Jun 1999), 12A1096
Critical layer instability as a resonance between a non-singular mode and continuous modes, Fluid Dyn Res **25**(2) 63-86 (Aug 1999), 12A1546
Effective parameters for surface heat fluxes in heterogeneous terrain, Tellus **51A**(3) 387-399 (May 1999), 12T1547
Large eddy simulation model with explicit microphysics: Validation against aircraft observations of a stratocumulus-topped boundary layer, J Atmos Sci **56**(13) 2115-2131 (Jul 1999), 12T1548
Numerical solutions of the vertical structure equation and associated energetics, Tellus **51A**(3) 337-348 (May 1999), 12T1549
Time-dependent nonlinear Hadley circulation, J Atmos Sci **56**(12) 1797-1807 (Jun 1999), 12T1550
Accelerator mass spectrometry measurements of South American rainwater samples, Acta Phys Polonica B **B30**(5) 1629-1638 (May 1999), 12A1593

458K. Atmospheric turbulence, storms

Analysis of storm surges, sea level and atmospheric pressure for the Polish Baltic Coast, Arch Hydro-Eng Env Mech **43**(1-4) 43-58 (1996), 1T1454
Climate change and design wind load concepts, Wind Struct **1**(2) 145-160 (Jun 1998), 1A1455
Determination and prediction of storm surges (Polish), Hydro-Tech Transactions **61** 75-89 (1997), 1T1456
Generalized equivalent spectrum technique, Wind Struct **1**(2) 161-174 (Jun 1998), 1A1457
Transport of temperature and humidity variance and covariance in the marine surface layer, Boundary-Layer Meteorol **87**(2) 233-253 (May 1998), 1T1459

Horizontal, two point coherence for separations greater than the measurement height, Boundary-Layer Meteorol **87**(3) 459-480 (Jun 1998), 2T1486
Study of correlations of scalar quantities in the atmospheric surface layer, Boundary-Layer Meteorol **87**(3) 499-508 (Jun 1998), 2T1487
Hydrodynamic model of a quasi-steady 2D front, Tellus **50A**(4) 507-524 (Aug 1998), 3A1475
Small-scale variability in the coastal atmospheric boundary layer, Boundary-Layer Meteorol **88**(1) 23-46 (Jul 1998), 3T1485
Stable nocturnal boundary layers: A comparison of 1D and large-eddy simulation models, Boundary-Layer Meteorol **88**(2) 181-210 (Aug 1998), 3T1487
Evidence of organized large eddies by ground-based Doppler lidar, sonic anemometer and sodar, Boundary-Layer Meteorol **88**(3) 343-361 (Sep 1998), 4T1509
Pulsing inertial oscillation, supercell storms, and surface mesonetwork data, J Eng Math **34**(3) 277-299 (Oct 1998), 4A1510
Turbulent statistics of neutrally stratified flow within and above a sparse forest from large-eddy simulation and field observations, Boundary-Layer Meteorol **88**(3) 363-397 (Sep 1998), 4T1511
Basic properties of the surrogate subgrid-scale heat flux in the atmospheric boundary layer, Boundary-Layer Meteorol **88**(3) 425-444 (Sep 1998), 4A1516
Diurnal variation in radon concentration and mixing-layer depths, Boundary-Layer Meteorol **89**(2) 225-250 (Nov 1998), 6T1524
Adaptation of the atmospheric boundary layer to a change in surface roughness, Boundary-Layer Meteorol **89**(2) 175-195 (Nov 1998), 6A1525
Simulation of marine stratocumulues: Effect of precipitation parameterization and sensitivity to droplet number concentration, Boundary-Layer Meteorol **89**(1) 75-107 (Oct 1998), 6T1530
Kwinana coastal Fumigation study - II: Growth of the thermal internal boundary layer, Boundary-Layer Meteorol **89**(3) 385-405 (Dec 1998), 7T1577
Kwinana coastal fumigation study - I: Program overview, experimental design and selected results, Boundary-Layer Meteorol **89**(3) 359-384 (Dec 1998), 7T1589
Second-order closure for neutrally stratified vegetative canopy flows, Boundary-Layer Meteorol **90**(2) 189-216 (Feb 1999), 8T1535
Boundary-layer decoupling over cold surfaces as a physical boundary-instability, Boundary-Layer Meteorol **90**(2) 297-325 (Feb 1999), 8A1536
Characterization and simulation of the multiscaling properties of the energy-containing scales of horizontal surface-layer winds, Boundary-Layer Meteorol **90**(1) 21-46 (Jan 1999), 8T1537
Entrainment parameterization in convective boundary layers, J Atmos Sci **56**(6) 813-828 (Mar 1999), 8A1538
Mass-flux characteristics of reactive scalars in the convective boundary layer, J Atmos Sci **56**(1) 37-56 (Jan 1999), 8A1539
Similarity statistics from a direct numerical simulation of the neutrally stratified planetary boundary layer, J Atmos Sci **56**(6) 890-900 (Mar 1999), 8T1542
Ocean spray and the thermodynamics of tropical cyclones, J Eng Math **35**(1-2) 11-42 (Feb 1999), 9A1510
Simulation of typhoon's anomalous track - II: CD method, Appl Math Mech **20**(1) 43-50 (Jan 1999), 9A1511
Role of potential vorticity generation in tropical cyclone rainbands, J Atmos Sci **56**(9) 1224-1228 (May 1999), 10T1573
Enhanced and inhibited gravity wave spectra, J Atmos Sci **56**(10) 1344-1352 (May 1999), 11T1590
Can the atmospheric kinetic energy spectrum be explained by 2D turbulence, J Fluid Mech **388** 259-288 (Jun 1999), 12A1551
Electrification of the hurricane, J Atmos Sci **56**(12) 2004-2028 (Jun 1999), 12T1552
Large-eddy simulation and parametrization of the effects of shear on shallow cumulus convection, Boundary-Layer Meteorol **91**(1) 65-80 (Apr 1999), 12T1557
Measuring sensible heat flux density over pasture using the C_2^T-profile method, Boundary-Layer Meteorol **91**(1) 23-35 (Apr 1999), 12T1558
Selected papers from a workshop on the stable planetary boundary layer held on October 21 to 24, 1997 at Lovanger in Sweden, Boundary-Layer Meteorol **90**(3) 345-549 (Mar 1999), 12A1559

458L. Heat transfer in the atmosphere

Mean profiles of moisture fluxes in snow-filled boundary layers, Boundary-Layer Meteorol **87**(2) 195-215 (May 1998), 1T1458
Transport of temperature and humidity variance and covariance in the marine surface layer, Boundary-Layer Meteorol **87**(2) 233-253 (May 1998), 1T1459
Study of correlations of scalar quantities in the atmospheric surface layer, Boundary-Layer Meteorol **87**(3) 499-508 (Jun 1998), 2T1487
Numerical modeling of the effects of vegetation and environmental conditions on the lake breeze, Boundary-Layer Meteorol **87**(3) 481-498 (Jun 1998), 2T1489
Case study of Rayleigh-Benard convection with clouds, Boundary-Layer Meteorol **88**(2) 211-237 (Aug 1998), 3T1053
Hydrodynamic model of a quasi-steady 2D front, Tellus **50A**(4) 507-524 (Aug 1998), 3A1475
Model to predict surface temperatures, Boundary-Layer Meteorol **88**(2) 279-306 (Aug 1998), 3T1481
Analytical slab model for the growth of the coastal thermal internal boundary layer under near-neutral onshore flow conditions, Boundary-Layer Meteorol **88**(1) 103-120 (Jul 1998), 3T1482
Behavior of a mixed-layer model of the convective boundary layer coupled to a big leaf model of surface energy partitioning, Boundary-Layer Meteorol **88**(1) 87-101 (Jul 1998), 3A1483
Numerical simulations of sea and land breezes at high latitudes, Tellus **50A**(4) 468-489 (Aug 1998), 3T1491
Lagrangian stochastic model for the trajectories of particle pairs and its application to the prediction of concentration variance within plant canopies, Boundary-Layer Meteorol **88**(3) 467-478 (Sep 1998), 4T1512
Unsteadiness as a cause of non-equality of eddy diffusivities for heat and vapor at the base of an advective inversion, Boundary-Layer Meteorol **88**(3) 479-504 (Sep 1998), 4T1513
Dynamics of Atmospheric Flows: Atmospheric Transport and Diffusion Processes (Comput Mech, Billerica MA, 1998) 7N36
Coherent structure and heat transfer in geostrophic flow under density stratification, Phys Fluids **11**(2) 368-377 (Feb 1999), 7A1578
Effect of chessboard variability of the surface fluxes on the aggregated turbulence fields in a convective atmospheric surface layer, Boundary-Layer Meteorol **91**(1) 37-50 (Apr 1999), 12T1553
Similarity of scalar fields in the convective boundary layer, J Atmos Sci **56**(13) 2212-2221 (Jul 1999), 12T1554

458M. Atmospheric boundary layer, terrain effects

One-point probability density function for the wind velocity in the neutral atmospheric surface layer, J Fluid Mech **366** 351-365 (Jul 1998), 1A1201
Mean profiles of moisture fluxes in snow-filled boundary layers, Boundary-Layer Meteorol **87**(2) 195-215 (May 1998), 1T1458
Transport of temperature and humidity variance and covariance in the marine surface layer, Boundary-Layer Meteorol **87**(2) 233-253 (May 1998), 1T1459
Inland and offshore propagation speeds of a sea breeze from simulations and measurements, Boundary-Layer Meteorol **87**(2) 307-329 (May 1998), 1T1460
Wind tunnel and numerical investigation of turbulent dispersion in coastal atmospheric boundary layers, Boundary-Layer Meteorol **87**(2) 255-273 (May 1998), 1A1472
Baroclinic, variable eddy viscosity Ekman layer, Boundary-Layer Meteorol **87**(3) 363-380 (Jun 1998), 2T1161
Nonlinear numerical model predictions of flow over an isolated hill of moderate slope, Boundary-Layer Meteorol **87**(3) 381-408 (Jun 1998), 2A1488
Numerical modeling of the effects of vegetation and environmental conditions on the lake breeze, Boundary-Layer Meteorol **87**(3) 481-498 (Jun 1998), 2T1489
Model to predict surface temperatures, Boundary-Layer Meteorol **88**(2) 279-306 (Aug 1998), 3T1481
Analytical slab model for the growth of the coastal thermal internal boundary layer under near-neutral onshore flow conditions, Boundary-Layer Meteorol **88**(1) 103-120 (Jul 1998), 3T1482
Behavior of a mixed-layer model of the convective boundary layer coupled to a big leaf model of surface energy partitioning, Boundary-Layer Meteorol **88**(1) 87-101 (Jul 1998), 3A1483
Nocturnal boundary-layer regimes, Boundary-Layer Meteorol **88**(2) 255-278 (Aug 1998), 3A1484
Small-scale variability in the coastal atmospheric boundary layer, Boundary-Layer Meteorol **88**(1) 23-46 (Jul 1998), 3T1485
Stability dependence of height scales and effective roughness lengths of momentum and heat transfer over roughness changes, Boundary-Layer Meteorol **88**(1) 145-160 (Jul 1998), 3T1486
Stable nocturnal boundary layers: A comparison of 1D and large-eddy simulation models, Boundary-Layer Meteorol **88**(2) 181-210 (Aug 1998), 3T1487
Turbulent statistics of neutrally stratified flow within and above a sparse forest from large-eddy simulation and field observations, Boundary-Layer Meteorol **88**(3) 363-397 (Sep 1998), 4T1511
Unsteadiness as a cause of non-equality of eddy diffusivities for heat and vapor at the base of an advective inversion, Boundary-Layer Meteorol **88**(3) 479-504 (Sep 1998), 4T1513
Analysis of wind fluctuations using the orthogonal wavelet transform, Appl Sci Res **59**(2-3) 205-218 (1997), 4A1514
Exchange of chemical species between the atmospheric boundary layer and the reservoir layer: An analytical interpretation, Appl Sci Res **59**(2-3) 219-227 (1997), 4A1515
Investigation of higher-order closure models for a forested canopy, Boundary-Layer Meteorol **89**(1) 47-74 (Oct 1998), 6T1521
Radiative effects on temperature in the stable surface layer, Boundary-Layer Meteorol **89**(1) 141-159 (Oct 1998), 6A1523
Diurnal variation in radon concentration and mixing-layer depths, Boundary-Layer Meteorol **89**(2) 225-250 (Nov 1998), 6T1524
Adaptation of the atmospheric boundary layer to a change in surface roughness, Boundary-Layer Meteorol **89**(2) 175-195 (Nov 1998), 6A1525
Aerodynamic roughness of urban areas derived from wind observations, Boundary-Layer Meteorol **89**(1) 1-24 (Oct 1998), 6A1526
Calculation of humidity during evaporation from soil, Adv Water Resources **22**(5) 495-505 (Jan 1999), 7T1573
Fronts and the boundary layer: Some numerical studies, Boundary-Layer Meteorol **89**(3) 469-506 (Dec 1998), 7A1580
Transient, linear dynamics of a stably stratified shear flow with thermal forcing and a critical level, J Atmos Sci **56**(4) 483-499 (Feb 1999), 8T1017
Density correction for Lagrangian particle dispersion models, Boundary-Layer Meteorol **90**(1) 155-167 (Jan 1999), 8A1190
Physically-based turbulent velocity time series decomposition, Boundary-Layer Meteorol **90**(2) 241-295 (Feb 1999), 8T1200
Observational study of wind profiles in the baroclinic convective mixed layer, Boundary-Layer Meteorol **90**(1) 47-82 (Jan 1999), 8T1532
Slow evolution of zonal jets on the beta plane, J Atmos Sci **56**(5) 784-800 (Mar 1999), 8T1533
Second-order closure for neutrally stratified vegetative canopy flows, Boundary-Layer Meteorol **90**(2) 189-216 (Feb 1999), 8T1535
Boundary-layer decoupling over cold surfaces as a physical boundary-instability, Boundary-Layer Meteorol **90**(2) 297-325 (Feb 1999), 8A1536
Characterization and simulation of the multiscaling properties of the energy-containing scales of horizontal surface-layer winds, Boundary-Layer Meteorol **90**(1) 21-46 (Jan 1999), 8T1537
Entrainment parameterization in convective boundary layers, J Atmos Sci **56**(6) 813-828 (Mar 1999), 8A1538
Mass-flux characteristics of reactive scalars in the convective boundary layer, J Atmos Sci **56**(1) 37-56 (Jan 1999), 8A1539
Note on the flux-variance similarity relationships for heat and water vapor in the unstable atmospheric surface layer, Boundary-Layer Meteorol **90**(2) 327-338 (Feb 1999), 8T1540
Parameterization of turbulent and mesoscale fluxes for heterogeneous surfaces, J Atmos Sci **56**(4) 584-598 (Feb 1999), 8T1541
Similarity statistics from a direct numerical simulation of the neutrally stratified planetary boundary layer, J Atmos Sci **56**(6) 890-900 (Mar 1999), 8T1542
Enhanced and inhibited gravity wave spectra, J Atmos Sci **56**(10) 1344-1352 (May 1999), 11T1590
Subgrid-scale parameterizations of Eddy-topographic force, eddy viscosity, and stochastic backscatter for flow over topography, J Atmos Sci **56**(11) 1481-1494 (Jun 1999), 11T1591
Coupled Korteweg-de Vries equations describing, to high-order, resonant flow of a fluid over topography, Phys Fluids **11**(7) 1797-1804 (Jul 1999), 12A1080
Can the atmospheric kinetic energy spectrum be explained by 2D turbulence, J Fluid Mech **388** 259-288 (Jun 1999), 12A1551
Similarity of scalar fields in the convective boundary layer, J Atmos Sci **56**(13) 2212-2221 (Jul 1999), 12T1554
Aerodynamic variables in the bulk formulation of turbulent fluxes, Boundary-Layer Meteorol **91**(1) 109-125 (Apr 1999), 12T1555
Estimates of roughness parameters for arrays of obstacles, Boundary-Layer Meteorol **91**(1) 1-22 (Apr 1999), 12A1556
Large-eddy simulation and parametrization of the effects of shear on shallow cumulus convection, Boundary-Layer Meteorol **91**(1) 65-80 (Apr 1999), 12T1557
Measuring sensible heat flux density over pasture using the C_2^T-profile method, Boundary-Layer Meteorol **91**(1) 23-35 (Apr 1999), 12T1558
Selected papers from a workshop on the stable planetary boundary layer held on October 21 to 24, 1997 at Lovanger in Sweden, Boundary-Layer Meteorol **90**(3) 345-549 (Mar 1999), 12A1559

458P. Applied meteorology (engineering applications, etc)

Field measurements of wind-induced transmission tower foundation loads, Wind Struct **1**(2) 183-199 (Jun 1998), 1A994
Large-Eddy simulation of windbreak flow, Boundary-Layer Meteorol **87**(2) 275-306 (May 1998), 1A1461
Numerical model for typhoon surges, China Ocean Eng **12**(2) 191-202 (1998), 2A1490
Parameters of the long-term wind conditions above the oceans, Ship Tech Res **45**(3) 99-104 (Jul 1998), 3A1488
Fundamentals of Atmospheric Modeling (Cambridge UP, New York, 1999) 5R37
Atmospheric Dynamics (Cambridge UP, UK, 1999) 8R34
Microphysical cloud processes and numerical analysis of rainfall considering the effects of aerosols (Japanese), Proc JSCE **614**(II-46) 1-20 (Feb 1999), 10A1574
Precipitation variability and tendency in Krakow for the period 1850 - 1997 related to circulation patterns, Acta Geophys Polonica **47**(1) 111-133 (1999), 10T1575
Significance of mineral dust aerosols in the global atmospheric model radiative forcings: Results validated with pre-indoex, Acta Geophys Polonica **47**(2) 231-235 (1999), 11T1592

458Y. Computational techniques in meteorology

Large-Eddy simulation of windbreak flow, Boundary-Layer Meteorol **87**(2) 275-306 (May 1998), 1A1461
Fast animation of turbulent fog phenomena, Machine Graphics & Vision **7**(1-2) 27-40 (1998), 1A1462
Numerical model for typhoon surges, China Ocean Eng **12**(2) 191-202 (1998), 2A1490
Application of advanced data assimilation methods for the initialization of storm surge models, J Hydraul Res **36**(4) 655-674 (1998), 2T1491
Dynamical initialization of boundary-layer data, Boundary-Layer Meteorol **87**(3) 509-514 (Jun 1998), 2A1492
Fast shallow-water equation solvers in latitude-longitude coordinates, J Comput Phys **145**(1) 432-444 (Sep 1998), 2A1493
Linear stability study of zonal incompressible flow on a sphere, Numer Methods PDE **14**(5) 649-665 (Sep 1998), 2A1494
Four-dimensional variational assimilation and predictability in a quasi-geostrophic model, Tellus **50A**(4) 369-390 (Aug 1998), 3T1478
Determining initial conditions and parameters in a simple coupled atmosphere-ocean model by adjoint data assimilation, Tellus **50A**(4) 534-544 (Aug 1998), 3T1489
Modeling a limited region of the ocean, J Comput Phys **145**(2) 555-574 (Sep 1998), 3T1490
Numerical simulations of sea and land breezes at high latitudes, Tellus **50A**(4) 468-489 (Aug 1998), 3T1491
Analysis of wind fluctuations using the orthogonal wavelet transform, Appl Sci Res **59**(2-3) 205-218 (1997), 4A1514
Basic properties of the surrogate subgrid-scale heat flux in the atmospheric boundary layer, Boundary-Layer Meteorol **88**(3) 425-444 (Sep 1998), 4A1516
Comparison of GCM-simulated and observed climates for assessing hydrological impacts of climate change, J Hydrology and Hydromech **46**(4-5) 237-263 (1998), 4T1517
Efficient computational model for water wave propagation in coastal regions, Appl Ocean Res **20**(5) 263-271 (Oct 1998), 4T1518
Fundamentals of Atmospheric Modeling (Cambridge UP, New York, 1999) 5R37
Numerical Methods for Nonlinear Waves in Geophysical Fluid Dynamics (Springer-Verlag, New York, 1998) 5R38
High performance computing as a tool for groundwater cleanup, J Hydraul Res **36**(6) 897-912 (1998), 6A1517
Implementation of a Barotropic-Baroclinic time splitting for isopycnic coordinate ocean modeling, J Comput Phys **148**(2) 579-604 (Jan 1999), 6T1527
New icosahedral grid-point discretizations of the shallow water equations on the sphere, J Comput Phys **148**(1) 23-58 (Jan 1999), 6A1528
Numerical simulation of the sensitivity of summer monsoon circulation and rainfall over India to land surface processes, Pure Appl Geophys **152**(4) 781-809 (Oct 1998), 6A1529
Simulation of marine stratocumulues: Effect of precipitation parameterization and sensitivity to drop-

let number concentration, Boundary-Layer Meteorol **89**(1) 75-107 (Oct 1998), 6T1530
Numerical methods for the solution of the turbulence energy equations in shelf seas, Int J Numer Methods Fluids **29**(2) 193-206 (Jan 1999), 7A1575
Data assimilation in a wave equation: A variational representer approach for the Grenoble tidal model, J Comput Phys **149**(1) 1-31 (Feb 1999), 7T1579
Fronts and the boundary layer: Some numerical studies, Boundary-Layer Meteorol **89**(3) 469-506 (Dec 1998), 7A1580
Grid generating algorithm for simulating a fluctuating water table boundary in heterogeneous unconfined aquifers, Adv Water Resources **22**(6) 567-575 (Feb 1999), 8T1517
Prediction of extreme sea-state encountered by oceangoing vessels, China Ocean Eng **12**(4) 483-487 (1998), 8T1525
Numerical implementation of space-transformation approach for solving the 3D flow equation, SIAM J Sci Comput **20**(2) 619-647 (Sep 1998), 9T1490
Validity of layered models of ocean dynamics and thermodynamics with reduced vertical resolution, Dyn Atmos Oceans **29**(1) 1-40 (Mar 1999), 9T1512
Numerical solutions of a nonlinear evolution system with small dissipation on parallel processors, J Sci Comput **13**(4) 405-417 (Dec 1998), 10A1323
Dynamics and predictability of Stommel's box model: A phase-space perspective with implications for decadal climate variability, Tellus **51A**(2) 326-336 (Mar 1999), 10T1569
Data assimilation into nonlinear stochastic models, Tellus **51A**(2) 167-194 (Mar 1999), 10T1576
Dynamics, statistics and predictability of a simple limited-area forecasting model, Tellus **51A**(2) 222-232 (Mar 1999), 10T1577
Gravity waves appearing in a high-resolution GCM simulation, J Atmos Sci **56**(8) 1005-1018 (Apr 1999), 10T1578
Development and evaluation of a convection scheme for use in climate models, J Atmos Sci **56**(11) 1766-1782 (Jun 1999), 11T1579
Subgrid-scale parameterizations of Eddy-topographic force, eddy viscosity, and stochastic backscatter for flow over topography, J Atmos Sci **56**(11) 1481-1494 (Jun 1999), 11T1591
foF2 long-term prediction at a single station with the use of artificial neural network, Acta Geophys Polonica **47**(2) 223-229 (1999), 11A1593
Effective parameters for surface heat fluxes in heterogeneous terrain, Tellus **51A**(3) 387-399 (May 1999), 12T1547
Large eddy simulation model with explicit microphysics: Validation against aircraft observations of a stratocumulus-topped boundary layer, J Atmos Sci **56**(13) 2115-2131 (Jul 1999), 12T1548
Numerical solutions of the vertical structure equation and associated energetics, Tellus **51A**(3) 337-348 (May 1999), 12T1549
Analytical 1D second-order closure model of turbulence statistics and the Lagrangian time scale within and above plant canopies of arbitrary structure, Boundary-Layer Meteorol **91**(1) 81-107 (Apr 1999), 12T1560
Fast and accurate numerical scheme for the primitive equations of the atmosphere, SIAM J Numer Anal **36**(3) 719-737 (Mar-May 1999), 12A1561
Non-oscillatory Eulerian approach to interfaces in multimaterial flows: The ghost fluid method, J Comput Phys **152**(2) 457-492 (Jul 1999), 12T1562
Stratospheric vacillations in a general circulation model, J Atmos Sci **56**(12) 1858-1872 (Jun 1999), 12T1563

458Z. Experimental techniques in meteorology

Dynamical initialization of boundary-layer data, Boundary-Layer Meteorol **87**(3) 509-514 (Jun 1998), 2A1492
Status of measurement techniques for coastal sediment transport, Coastal Eng **35**(1-2) 17-45 (Oct 1998), 5A930
Instrument for field measurement of wave impact pressures and seawater aeration, Coastal Eng **35**(1-2) 103-122 (Oct 1998), 5A935
Buoy pitch and roll computed using three angular rate sensors, Coastal Eng **35**(1-2) 123-139 (Oct 1998), 5T1502
Coastal engineering applications of high-resolution lidar bathymetry, Coastal Eng **35**(1-2) 47-71 (Oct 1998), 5T1503
Manometer tubes for coastal hydrodynamics investigations, Coastal Eng **35**(1-2) 73-84 (Oct 1998), 5A1504
Determination of directional wave spectra for practical applications, Appl Ocean Res **20**(6) 357-374 (Dec 1998), 6T1519
Soil water content measurement using the principle of Galvanic Cell (Czech), J Hydrology and Hydromech **46**(6) 427-431 (1998), 7T1574
Spectrum-independent procedure for correcting eddy fluxes measured with separated sensors, Boundary-Layer Meteorol **89**(3) 445-467 (Dec 1998), 7T1581
Analog light scattering experiment of hexagonal ice-like particles - Part I: Experimental apparatus and test measurements, J Atmos Sci **56**(4) 605-612 (Feb 1999), 8A1543
Eulerian mean, contour integral, and finite-amplitude wave activity diagnostics applied to a single-layer model of the winter stratosphere, J Atmos Sci **56**(5) 689-710 (Mar 1999), 8T1544
Global ozone monitoring experiment: Mission concept and first scientific results, J Atmos Sci **56**(2) 151-175 (Jan 1999), 8A1545
Observations of stratospheric aerosol using CPFM polarized limb radiances, J Atmos Sci **56**(2) 233-240 (Jan 1999), 8T1546
Remote sensing measurements of tropospheric ozone by ground-based thermal emission spectroscopy, J Atmos Sci **56**(2) 311-318 (Jan 1999), 8T1547
Retrieval of tropical cirrus thermal optical depth, crystal size, and shape using a dual-view instrument at 3.7 and 10.8 μm, J Atmos Sci **56**(1) 92-110 (Jan 1999), 8T1548
Retrieval of tropospheric carbon monoxide profiles from high-resolution interferometer observations: A new digital gas correlation method and application, J Atmos Sci **56**(2) 219-232 (Jan 1999), 8T1566
Locally nonlinear interpretation of PUV measurements, Coastal Eng **36**(1) 17-36 (Feb 1999), 9A275
Paleomagnetism and rock-magnetism of ordovician gneisses from the Leszczyniec unit (Rudawy Janowickie, Sudetes): Study of remagnetization effects, Acta Geophys Polonica **46**(2) 187-215 (1998), 10T1579

VIII. ENERGY & ENVIRONMENT

500. FOSSIL FUEL SYSTEMS

500B. Geophysical aspects

Statistical analysis of microcrack accumulation in PMMA under fatigue loading: Applications to orthopaedic implant fixation, Int J Fatigue **20**(8) 581-593 (Sep 1998), 2A854
Finite element analysis for a finite conductivity fracture in an infinite poroelastic medium, Int J Numer Anal Methods Geomech **23**(3) 187-215 (Mar 1999), 9A1488
New model to analyze nonlinear leak-off test behavior, J Energy Resources Tech **121**(2) 102-109 (Jun 1999), 9A1513
Salt dome boundary interpretation by ray tracing method applied to VSP data, Acta Geophys Polonica **47**(2) 203-213 (1999), 11A1594
Technique of numerical solution of 2D direct current modeling problem in inhomogeneous media, Acta Geophys Polonica **47**(2) 143-163 (1999), 11T1595

500C. Mining mechanics

Influence of distance between points in observation lines on the values of horizontal deformation calculated from measurements (Polish), Arch Gornictwa **43**(2) 315-335 (1998), 11A658
Nonlinear theory for forecasting mining extraction influences on land surface in light of geodesic measurements (Polish), Arch Gornictwa **43**(1) 55-83 (1998), 11T659
Modeling of dense rock mining with disk tools with high-pressure water jet assistance (Polish), Arch Gornictwa **43**(1) 147-184 (1998), 11A678
Rock's rupture around a cavity, Arch Gornictwa **43**(4) 575-581 (1998), 11A679
Gas filtration through hard coal in transient states (Polish), Arch Gornictwa **43**(4) 561-574 (1998), 11A1596
Influence of conical tools' parameters on cutting results (Polish), Arch Gornictwa **43**(2) 291-314 (1998), 11T1597
Influence of thermal insulation of walls of workings on air temperature, Arch Gornictwa **43**(4) 517-533 (1998), 11A1598
Mining research into the distribution of methane concentration in mining galleries ventilated by duct lines, Arch Gornictwa **43**(1) 3-18 (1998), 11A1599
Numerical determination of diagonal branches in mining ventilation networks, Arch Gornictwa **43**(4) 549-560 (1998), 11A1600
Numerical simulation of 3D air flow in mining workings (Polish), Arch Gornictwa **43**(4) 535-548 (1998), 11A1601
Particulary starting case of a long belt conveyer (Polish), Arch Gornictwa **43**(1) 117-146 (1998), 11T1602
Practical utilization of a mathematical model for variation of thermodynamic parameters of cooled air in mining galleries with direct ventilation, Arch Gornictwa **43**(1) 35-53 (1998), 11A1603
Predicting rheological parameters of slag-alkaline slurries, Arch Gornictwa **43**(1) 97-104 (1998), 11A1604
Selection of parameters of a stable ventilation network (Polish), Arch Gornictwa **43**(2) 229-244 (1998), 11T1605
Simulation and prediction of endurance of wire ropes, Arch Gornictwa **43**(4) 583-589 (1998), 11A1606
Sorption and desorption of methane on hard coals of different ranks at elevated pressures, Arch Gornictwa **43**(2) 269-276 (1998), 11T1607
Scrption kinetics of CO_2 and CH_4 on the macerals concentrates isolated from low rank coals, Arch Gornictwa **43**(2) 277-289 (1998), 11T1608
Studies of flows of two-component gas mixtures in coal from the mines Czeczott and Zofiowka, Arch Gornictwa **43**(1) 85-96 (1998), 11T1609
Synthesis of an electric winder as a nonlinear system (Polish), Arch Gornictwa **43**(1) 105-116 (1998), 11A1610
Thermodynamic model of air cooling by means of a mining diaphragm cooler without steam condensation (Polish), Arch Gornictwa **43**(1) 19-34 (1998), 11T1611
Use of bore-holes to determine the range of a drainage zone of methane (Polish), Arch Gornictwa **43**(2) 207-227 (1998), 11A1612
Verification of the performance description of a surface cooler without water vapor condensation (Polish), Arch Gornictwa **43**(4) 503-515 (1998), 11T1613
State of stress and displacement in the face area of a shaft sunk in a rock mass with elastic properties, Arch Gornictwa **43**(3) 419-438 (1998), 12T714
Analysis of selected thermal effects during rock cutting, Arch Gornictwa **43**(3) 487-500 (1998), 12T1564
Selection of hydraulic prop of longwall support for work in conditions of rock mass tremors hazard, Arch Gornictwa **43**(3) 471-486 (1998), 12T1565
Stability of operation of the main fan stations in a mine network generating natural ventilation pressure, treated as a system with lumped parameters, Arch Gornictwa **43**(3) 351-418 (1998), 12A1566

500D. Oil and gas drilling mechanics

Geomechanical partitioning of metals in spent drilling fluid solids, J Energy Resources Tech **120**(3) 208-214 (Sep 1998), 1A1463
Penn State Safety Floor - Part II: Reduction of fall-related peak impact forces on the femur, J Biomech Eng **120**(4) 527-532 (Aug 1998), 1A1464
Model equation for the prediction of mechanical internal work of terrestrial locomotion, J Biomech **31**(5) 463-468 (May 1998), 2A1495
Analysis of offshore guyed tower platforms to wind and wave forces, J Energy Resources Tech **120**(4) 256-262 (Dec 1998), 5A68
Pipe bending and running forces in medium to high-curvature wells using FE analysis, J Energy Resources Tech **120**(4) 263-267 (Dec 1998), 5A1505
Chemical plug for zone isolation in horizontal wells, J Energy Resources Tech **121**(1) 40-44 (Mar 1999), 7A1582
Stator life of a positive displacement downhole drilling motor, J Energy Resources Tech **121**(2) 110-116 (Jun 1999), 9A1514
Proceedings of the 1999 Energy Sources Technology Conference (ASME, New York, 1999) 10N33

500E. Oil and gas reservoir engineering

Type curves for predicting directional tendencies of simple bottom-hole assemblies, J Energy Resources Tech **120**(3) 193-200 (Sep 1998), 1A1465
Model for the extraction of oil from spent bleaching clays, Arab J Sci Eng **23**(2B) 165-176 (Oct 1998), 5A1506
Oilwell cement pulsing to maintain hydrostatic pressure: A search for design model, J Energy Resources Tech **120**(4) 251-255 (Dec 1998), 5A1507
Use of seismic method for monitoring underground gas storage in salt domes, Acta Geophys Polonica **46**(2) 145-159 (1998), 10T1580

500H. Heat transfer and combustion problems

Role of gas energy during coal outbursts, Int J Numer Methods Eng **44**(7) 875-895 (Mar 1999), 7A1583

502. NUCLEAR SYSTEMS

502B. Dynamics and vibration aspects

Integrity evaluation of fuel assembly for earthquake, Nucl Eng Des **185**(1) 97-108 (Sep 1998), 4A1519
Flow-induced vibration: Recent findings and open questions, Nucl Eng Des **185**(2-3) 249-276 (Oct 1998), 5A1508
IAEA Technical committee meeting on drivers and ignition facilities for inertial fusion, Osaka Univ, Osaka, Japan, March 10 - 14, 1997, Fusion Eng Des **44**(1) 1-473 (Feb 1999), 8T1549

502C. Structural mechanics aspects

Calculation of elastic-plastic strain ranges for fatigue analysis based on linear elastic stresses, Nucl Eng Des **183**(1-2) 29-40 (Jul 1998), 1A836
Knowledge-based multi-dimension discrete common cause failure model, Nucl Eng Des **183**(1-2) 107-116 (Jul 1998), 1A858
Assessment of operability and structural integrity of a vertical pump for extreme loads, Int J Pressure Vessels Piping **75**(4) 297-306 (Apr 1998), 1A1466
Validation of PSAs for use in risk-monitoring applications, J Pressure Vessel Tech **120**(4) 379-383 (Nov 1998), 2A947
Status of code cases related to application of risk-informed inservice inspection in ASME Code Section XI, J Pressure Vessel Tech **120**(4) 438-440 (Nov 1998), 2A1496
Low-cycle fatigue of piping and pressure vessel steels in LWR environments, Nucl Eng Des **184**(1) 49-76 (Aug 1998), 3A751
Development of thermal fatigue testing apparatus with BWR water environment and thermal fatigue strength of austenitic stainless steels, Nucl Eng Des **184**(1) 113-122 (Aug 1998), 3A775
Risk-based approaches to aging and maintenance management, Nucl Eng Des **184**(1) 27-38 (Aug 1998), 3A893
Thermal fatigue behavior of thin-walled cylindrical carbon steel specimens in simulated BWR environment, Nucl Eng Des **184**(1) 123-133 (Aug 1998), 3A1338
Thermal fatigue strength of type 304 stainless steel in simulated BWR environment, Nucl Eng Des **184**(1) 135-144 (Aug 1998), 3A1339
Failure analysis and experimental stress analysis of a threaded rotating shaft, Eng Failure Anal **5**(2) 79-89 (Jun 1998), 3A1492
NESC spinning cylinder experiment: Pre-test structural analysis evaluation, Nucl Eng Des **184**(1) 39-47 (Aug 1998), 3A1493
Long-term aging of light water reactor concrete containments, Nucl Eng Des **185**(1) 51-81 (Sep 1998), 4A1520
Temperature stresses in thick circular cylindrical shells used in nuclear reactors with and without uniform internal heat generation within the shell wall thickness, Proc Inst Mech Eng C **212**(C7) 547-554 (1998), 5A554
Temperature stresses in thick wall circular cylindrical shells used in nuclear reactors with exponential heat generation within the shell wall thickness, Proc Inst Mech Eng C **212**(C7) 555-565 (1998), 5A555
Overview of fatigue crack initiation in carbon and low-alloy steels in light water reactor environments, J Pressure Vessel Tech **121**(1) 49-60 (Feb 1999), 5A646
Modeling of the fuel mechanical behavior: From creep laws to internal variable models, Nucl Eng Des **185**(2-3) 221-228 (Oct 1998), 5A1509
Probabilistic assessment of excessive leakage through steam generator tubes degraded by secondary side corrosion, Nucl Eng Des **185**(2-3) 347-359 (Oct 1998), 5A1510
High-power test of the all-metal supports for a center conductor of an ITER ICRF antenna, Fusion Eng Des **45**(1) 31-40 (Mar 1999), 8A1550
Self-shielding effects in a tungsten layer in a fusion device, Fusion Eng Des **45**(1) 65-73 (Mar 1999), 8A1551
Structural evaluation of a compact, semi-closed W-shaped divertor system for JT-60U, Fusion Eng Des **45**(1) 41-53 (Mar 1999), 8A1552
Implementation of FE based fatigue monitoring system at Heavy Water Plant Kota, Nucl Eng Des **187**(2) 153-163 (Feb 1999), 9A817
Further evaluation of creep-fatigue life prediction methods for low-carbon nitrogen-added 316 stainless steel, J Pressure Vessel Tech **121**(2) 142-148 (May 1999), 9A834
Corrosion and mechanical strength of welded joints of downcomers for RBMK reactors, Int J Pressure Vessels Piping **76**(5) 299-307 (Apr 1999), 9A1515
Dynamic simulation of a steam generator by neural networks, Nucl Eng Des **187**(2) 197-213 (Feb 1999), 9A1516

Global rupture of a nuclear reactor lower head with elevated temperature due to severe accidents, Nucl Eng Des **187**(3) 261-276 (Mar 1999), 9A1517
Studies on the seismic buckling design guideline of FBR main vessels - Effect of thermal loads on shear-bending buckling strength of main vessels, JSME Int J Ser A **41**(4) 554-561 (Oct 1998), 10A1581
Studies on the creep behavior of the structural material 316 L (N) in the low-stress range at 550°C and 600°C, Nucl Eng Des **188**(3) 381-384 (May 1999), 11A483
Dynamic buckling experiments of fluid-structure-coupled co-axial thin cylinder, Nucl Eng Des **188**(1) 13-26 (Apr 1999), 11A603
Numerical evaluation of interfacial area concentration using the immiscible lattice gas, Nucl Eng Des **188**(1) 111-121 (Apr 1999), 11A1173
Mechanistic critical heat flux model for wide range of subcooled and low quality flow boiling, Nucl Eng Des **188**(1) 27-47 (Apr 1999), 11A1175
Component exposure in hypothetical accidents with very fast depressurization in a HTR module reactor, Nucl Eng Des **190**(3) 297-302 (Jun 1999), 12A1567

502D. Fracture mechanics aspects

Probabilistic model for fracture toughness prediction based on the new local fracture criteria, Int J Pressure Vessels Piping **75**(4) 307-320 (Apr 1998), 1A862
Computational methods assuring nuclear power plant structural integrity and safety: An overview of the recent activities at VTT, Nucl Eng Des **183**(1-2) 41-51 (Jul 1998), 1A1467
New approaches to improve the RPV materials data base, Nucl Eng Des **183**(1-2) 1-8 (Jul 1998), 1A1468
Pretest fracture assessment of the NESC-1 spinning cylinder under a PTS transient, Int J Pressure Vessels Piping **75**(3) 203-212 (Mar 1998), 1A1469
Tensile and fracture properties evaluation of PHT system piping material of PHWR, Int J Pressure Vessels Piping **75**(4) 271-280 (Apr 1998), 1A1470
J-estimation schemes for internal circumferential and axial surface cracks in pipe elbows, J Pressure Vessel Tech **120**(4) 418-423 (Nov 1998), 2A866
J-R curves from circumferentially through-wall-cracked pipe tests subjected to combined bending and tension - Part I: Theory and numerical simulation, J Pressure Vessel Tech **120**(4) 406-411 (Nov 1998), 2A867
J-R curves from circumferentially through-wall-cracked pipe tests subjected to combined bending and tension - Part II: Experimental and analytical validation, J Pressure Vessel Tech **120**(4) 412-417 (Nov 1998), 2A868
Mechanistic prediction of fracture processes in ferritic steel welds within the transition temperature regime, J Eng Mat Tech **120**(4) 328-337 (Oct 1998), 2A1497
Modeling of fatigue crack growth rate for ferritic steels in light water reactor environments, Nucl Eng Des **184**(1) 89-111 (Aug 1998), 3A739
Fracture toughness assessment of in-service aged primary circuit elbows using mini-CT specimens taken from outer skin, Nucl Eng Des **184**(1) 3-11 (Aug 1998), 3A1494
Modeling of corrosion fatigue crack growth plateaux for RPV steels in high temperature water, Nucl Eng Des **184**(1) 13-25 (Aug 1998), 3A1495
Safety and availability of steam generator tubes affected by secondary side corrosion, Nucl Eng Des **185**(1) 11-21 (Sep 1998), 4A787
Fourth international symposium on fusion nuclear technology Tokyo, Japan April 6 - 11 1997: Part B, Fusion Eng Des **41** 1-604 (Sep 1998), 4T1525
Improved probabilistic model for fracture toughness prediction for nuclear pressure vessel steels, Int J Pressure Vessels Piping **75**(12) 843-855 (Oct 1998), 5A688
Fracture analysis of the heat-affected zone in the NESC-1 spinning cylinder experiment, J Pressure Vessel Tech **121**(1) 1-5 (Feb 1999), 5A1511
Deterministic assessment of reactor pressure vessel integrity under pressurized thermal shock, Int J Pressure Vessels Piping **75**(15) 1055-1064 (Dec 1998), 7A1584
Investigation on the possibility of using the microshear test as a surveillance method to estimate the mechanical properties and fracture roughness of nuclear pressure vessel steel, A508CL3, and its joint welded by narrow-gap submerged-arc welding, Int J Pressure Vessels Piping **76**(1) 35-41 (Jan 1999), 7A1585
Survey of national regulatory requirements relevant to PWR pressure vessels, Int J Pressure Vessels Piping **75**(14) 979-1036 (Dec 1998), 7A1586
Modeling for ductile-to-brittle transition under ductile crack growth for reactor vessel steels, Int J Pressure Vessels Piping **76**(5) 309-317 (Apr 1999), 9A874
Study on ductile fracture initiation in the PHT piping material of an Indian PHWR using local approach, Int J Pressure Vessels Piping **76**(5) 319-330 (Apr 1999), 9A877
Characterization of cracks using eddy current tomography, Int J Appl Electromagnetics Mech **10**(2) 91-103 (Apr 1999), 9A955
Leak-before-break qualification of primary heat transport piping of 500 MWe Tarapur Atomic Power Plant, Int J Pressure Vessels Piping **76**(4) 221-243 (Apr 1999), 9A1518
Characterization of gradients in mechanical properties of SA-533B steel welds using ball indentation, Int J Pressure Vessels Piping **76**(6) 361-369 (May 1999), 10A1582
Fracture toughness of austenitic welded joints, Int J Pressure Vessels Piping **76**(6) 393-400 (May 1999), 10A1583
Perturbation of the heat transfer and the friction factor of a rib roughened surface in an annular passage due to localized removal of the ribbing, Nucl Eng Des **188**(1) 85-96 (Apr 1999), 11A1391
Fracture assessment of shallow-flaw cruciform beams tested under uniaxial and biaxial loading conditions, Nucl Eng Des **188**(3) 259-288 (May 1999), 11A1614
Investigation of cladding effects on shallow-flaw fracture toughness of reactor pressure vessel steel under prototypic biaxial loading, J Pressure Vessel Tech **121**(3) 257-268 (Aug 1999), 11A1615
Strength and survivability analysis in engineering safety for structures damaged by cracks, Int J Pressure Vessels Piping **76**(7) 441-444 (Jun 1999), 12A849
11th European conference on fracture (ECF11) Poitiers, France 1997, Nucl Eng Des **188**(2) 129-254 (Apr 1999), 12T1568
22nd MPA-Seminar Stuttgart, Germany October 10-11, 1996, Nucl Eng Des **190**(1-2) 3-249 (Jun 1999), 12T1569
Probabilistic assessment of reactor pressure vessel integrity under pressurized thermal shock, Int J Pressure Vessels Piping **76**(7) 445-453 (Jun 1999), 12A1570

502E. Fluid mechanics aspects

Effect of truncation error on the numerical prediction of linear stability boundaries in a natural circulation single-phase loop, Nucl Eng Des **183**(1-2) 53-76 (Jul 1998), 1A1192
Critical heat flux for finned and unfinned geometries under low flow and low pressure conditions, Nucl Eng Des **183**(3) 235-247 (Jul 1998), 2A1498
Critical heat flux prediction in rod bundles under upward low mass flux densities, Nucl Eng Des **183**(3) 249-259 (Jul 1998), 2A1499
Gravity-driven injection experiments and direct-contact condensation regime map for passive high-pressure injection systems, Nucl Eng Des **183**(3) 213-234 (Jul 1998), 2A1500
Thermodynamic properties and equations of state for fast reactor safety analysis - Part I: Analytic equation-of-state model, Nucl Eng Des **183**(3) 177-191 (Jul 1998), 2A1501
Thermodynamic properties and equations of state for fast reactor safety analysis - Part II: Properties of fast reactor materials, Nucl Eng Des **183**(3) 193-211 (Jul 1998), 2A1502
Theoretical and experimental simulation of accident scenarios of the Joint European Torus cryogenic components - Part 1: the in-vessel cryopump, Proc Inst Mech Eng C **212**(C6) 509-524 (1998), 3A1496
Theoretical and experimental simulation of accident scenairos of the Joint European Torus cryogenic components - Part 2: The lower hybrid current drive cryopump, Proc Inst Mech Eng C **212**(C6) 525-530 (1998), 3A1497
Advanced multiphase flow instrumentation and measurement techniques: Santa Barbara, CA, March 17 - 20, 1997, Nucl Eng Des **184**(2-3) 163-447 (Aug 1998), 4T1130
Analysis of biaxial loading effect on fracture toughness of reactor pressure vessel steels, Int J Pressure Vessels Piping **75**(8) 589-601 (Jul 1998), 4A1521
Main steam isolation valves in very severe working conditions (French), Rev Francaise Mec **0**(3) 175-180 (Sep 1998), 4A1522
Range of facilities for testing power plant valves under extreme conditions (French), Rev Francaise Mec **0**(3) 167-173 (Sep 1998), 4A1523
Effect of flow-induced vibration on local flow parameters of two-phase flow, Nucl Eng Des **185**(2-3) 113-125 (Oct 1998), 5A1010
Thermal hydraulic study on a high-temperature gas-gas heat exchanger with helically coiled tube bundles, Nucl Eng Des **185**(2-3) 141-151 (Oct 1998), 5A1512
Experimental study on two-phase natural circulation and flow termination in a loop, Nucl Eng Des **186**(3) 395-409 (Dec 1998), 6A1531
Scaling for integral simulation of mixing in large, stratified volumes, Nucl Eng Des **186**(1-2) 213-224 (Nov 1998), 6A1532
Critical heat flux at high velocity channel flow with high subcooling, Nucl Eng Des **187**(2) 215-227 (Feb 1999), 9A1519
Simulation of isothermal fission gas release: An analytical solution, Nucl Eng Des **187**(3) 327-337 (Mar 1999), 9A1520
Analytical model for self-excited vibration of an overflow flexible plate weir, J Pressure Vessel Tech **121**(3) 296-303 (Aug 1999), 11A285
Experimental investigations of the flow patterns in the hot leg of a pressurized water reactor, Nucl Eng Des **188**(1) 75-84 (Apr 1999), 11A1213
Non reflecting boundary conditions and their use in estimating the effects of coolant channel failure in a PHWR, Nucl Eng Des **188**(3) 345-360 (May 1999), 11A1616
Pressure transients in incompressible fluid pipeline networks, Nucl Eng Des **188**(1) 1-11 (Apr 1999), 11A1617
Analytical investigation of role expansion tank in semi-closed two-phase natural circulation loop, Nucl Eng Des **190**(3) 353-360 (Jun 1999), 12A1121
Steady state behavior of boiling channels: A comprehensive analysis using singularity theory, Nucl Eng Des **190**(3) 303-316 (Jun 1999), 12A1138
Experimental evaluation of the limiting critical quality values in circular and non-circular flow geometries, Nucl Eng Des **190**(3) 317-339 (Jun 1999), 12A1343
Fuel-coolant interactions, Nucl Eng Des **189**(1-3) 7-440 (May 1999), 12T1571

502F. Fluid structure interactions

Handy method for estimating radiation streaming through holes in shield assemblies, Fusion Eng Des **43**(1) 1-13 (Oct 1998), 5A1513
Experimental investigation on thermal striping mixing phenomena of a vertical non-buoyant jet with two adjacent buoyant jets as measured by ultrasound Doppler velocimetry, Nucl Eng Des **188**(1) 49-73 (Apr 1999), 11A1226
Numerical analysis of nonstationary thermal response characteristics for a fluid-structure interaction system, J Pressure Vessel Tech **121**(3) 276-282 (Aug 1999), 11A1618

502G. Transient behavior (loss of coolant accidents, etc)

Thorium cycle as a future energy alternative (Polish), Arch Energetics **27**(3-4) 79-96 (1998), 10A460
Safety analyses of water cooled components inside the JET thermonuclear fusion tokamak, Fusion Eng Des **45**(2) 241-256 (May 1999), 12A1572

502H. Radiation interaction on materials

Fragmentation of the Pb projectile at 158 GeV-nucleon in Pb-Pb interactions, Acta Phys Polonica B **B29**(8) 2155-2174 (Aug 1998), 2T1503
Effects of post-irradiation thermal annealing on radiation embrittlement behavior of Cr-Mo-V alloyed weld metals, Acta Polytech Scand Mech Eng **0**(132) 2-112 (1998), 4A1524
Fourth international symposium on fusion nuclear technology Tokyo, Japan April 6 - 11 1997: Part B, Fusion Eng Des **41** 1-604 (Sep 1998), 4T1525
Three-dimensional radiation shielding analysis of the large helical device, Fusion Eng Des **43**(1) 59-74 (Oct 1998), 5A1514
Behavior of mechanical properties of nickel-alloyed reactor pressure vessel steel under neutron irradiation and post-irradiation annealing, Nucl Eng Des **186**(3) 353-359 (Dec 1998), 6A1533
Mechanisms and modeling of irradiation embrittlement of reactor pressure vessel steels, J Soc Mat Sci Japan **47**(11) 1112-1118 (Nov 1998), 6A1534
Thermal annealing of irradiated PWR pressure vessels, Int J Pressure Vessels Piping **75**(15) 1075-1095 (Dec 1998), 7A1587
Comparison of Western and Eastern nuclear reactor pressure vessel steels, Int J Pressure Vessels Piping **76**(3) 163-208 (Mar 1999), 9A1521
Electron beam technologies for preparation of polymeric materials used for waste water treatment, agriculture, and medicine, Mat Manuf Processes **14**(3) 347-364 (1999), 11T722
Combined electron beam and microwave treatment for flue gas purification, Mat Manuf Processes **14**(3) 365-382 (1999), 11T1619
Detector studies for TESLA, Acta Phys Polonica B **B30**(6) 2085-2096 (Jun 1999), 12T1573
Status of the TESLA design, Acta Phys Polonica B **B30**(6) 2049-2059 (Jun 1999), 12T1574

506. SOLAR AND OTHER ENERGY SYSTEMS

506B. Solar collector mechanics

Non-axisymmetric reflectors concentrating radiation from an asymmetric heliostat field onto a circular absorber, Solar Energy **63**(1) 23-30 (Jul 1998), 2A1504
Theoretical analysis for an air heater with a box-type absorber, Solar Energy **63**(3) 191-198 (Sep 1998), 4A1526
Experimental investigation of a box-type solar oven, J Eng Appl Sci **45**(4) 549-565 (Aug 1998), 5A1515
Cone concentrator for high-temperature solar cavity-receivers, Solar Energy **65**(1) 33-41 (Jan 1999), 6A1535
Optical fiber reflectometer coupled with a solar concentrator to determine solar reflectivity and absorptivity at high temperature, J Solar Energy Eng **121**(1) 31-35 (Feb 1999), 6A1536
Selected Proceedings of ISES 1997, Solar World Congress - Part II, Solar Energy **64**(4-6) 121-277 (Dec 1998), 6T1537
Comparison of single-pass and multi-pass solar hot water systems, Proc Estonian Acad Sci Eng **5**(1) 87-89 (Mar 1999), 8A1553
Experimental studies on a solar air collector with metal matrix absorber, Solar Energy **65**(2) 91-98 (Feb 1999), 9A1522
High-flux solar concentration with imaging designs, Solar Energy **65**(2) 83-89 (Feb 1999), 9A1523
Solar fiber-optic mini-dishes: A new approach to the efficient collection of sunlight, Solar Energy **65**(3) 159-170 (Feb 1999), 9A1524
Numerical analysis of a thermosyphon solar water heater, Arch Thermodyn **19**(1-2) 33-44 (1998), 10A1584
Transient investigation of a thermosyphon flat-plate solar collector, Appl Thermal Eng **19**(7) 789-800 (Jul 1999), 10A1585
Design of a nonimaging fresnel lens for solar concentrators, Solar Energy **65**(6) 379-387 (Apr 1999), 11A1620
Use of corrugated booster reflectors for solar collector fields, Solar Energy **65**(6) 343-351 (Apr 1999), 11A1621
Asymmetric line-axis inverted absorber compound parabolic concentrator optical parameter analysis, Proc Inst Mech Eng A **213**(A2) 143-148 (1999), 12A1575

506D. Solar heat transfer

Experimental study for a double-glazed forced-flow solar collector-regenerator, J Solar Energy Eng **120**(4) 253-259 (Nov 1998), 2A1505
Selected Proceedings of ISES 1997 Solar World Congress - Part I: Held in Taejon, South Korea during August 24 - 29, 1997, Solar Energy **64**(1-3) 3-120 (Sep 1998), 4T1527
Heat conduction through the support pillars in vacuum glazing, Solar Energy **63**(6) 393-406 (Dec 1998), 6A1376
Selected Proceedings of ISES 1997, Solar World Congress - Part II, Solar Energy **64**(4-6) 121-277 (Dec 1998), 6T1537
Solar collectors with tubes partially filled with porous substrates, J Solar Energy Eng **121**(1) 20-24 (Feb 1999), 6A1538
Surface hardening of steel using highly concentrated solar energy process, J Solar Energy Eng **121**(1) 36-39 (Feb 1999), 6A1539
Theoretical and experimental investigation of a radiative cooling system, Solar Energy **63**(6) 367-373 (Dec 1998), 6A1540
Thermal design and field experiment of transparent honeycomb insulated integrated-collector-storage solar water heater, Appl Thermal Eng **19**(2) 145-161 (Feb 1999), 7A1588
High efficiency evacuated flat-plate solar collector for process steam production, Solar Energy **65**(2) 111-118 (Feb 1999), 9A1525
Numerical model and parametric analysis of an inflatable solar heater, Solar Energy **65**(4) 263-270 (Mar 1999), 9A1526
Performance of a heat pump using direct expansion solar collectors, Solar Energy **65**(3) 189-196 (Feb 1999), 9A1527
Simulation model of a CPC collector with temperature-dependent heat loss coefficient, Solar Energy **65**(2) 99-110 (Feb 1999), 9A1528
Proceedings of Renewable and Advanced Energy Systems for the 21st Century (ASME, New York, 1999) 10N32
Numerical solutions and validation of a dynamic model of solar collectors working with varying fluid flow rate, Solar Energy **65**(5) 305-321 (Apr 1999), 10A1586

Model of the thermal restoration transient state of an opaque wall after the interruption of solar radiation, Solar Energy **66**(1) 21-31 (May 1999), 12A1576

506F. Other solar aspects

Thermodynamic analysis of a simple open-flow solar regenerator, Appl Thermal Eng **18**(12) 1359-1374 (Dec 1998), 2A1272
Analysis of a load-side heat exchanger for a solar domestic hot water heating system, J Solar Energy Eng **120**(4) 270-274 (Nov 1998), 2A1506
Distribution of solar energy output in Estonia, Proc Estonian Acad Sci Eng **4**(2) 138-143 (Jun 1998), 2A1507
Finite-time power limit for solar-radiant Ericsson engines in space applications, Appl Thermal Eng **18**(12) 1347-1357 (Dec 1998), 2A1508
Fuzzy algorithm for estimation of solar irradiation from sunshine duration, Solar Energy **63**(1) 39-49 (Jul 1998), 2A1509
Numerical study of solar chimney for natural ventilation of buildings with heat recovery, Appl Thermal Eng **18**(12) 1171-1187 (Dec 1998), 2A1510
Performance limits of heliostat fields, J Solar Energy Eng **120**(4) 240-246 (Nov 1998), 2A1511
Surface precision of inflatable membrane reflectors, J Solar Energy Eng **120**(4) 298-305 (Nov 1998), 2A1512
Catalytic thermochemical reactor-receiver for solar reforming of natural gas: Design and performance, Solar Energy **63**(2) 97-104 (Aug 1998), 3A1498
Design aspects of solar-powered ships, Ship Tech Res **45**(3) 126-129 (Jul 1998), 3A1499
Design guidelines for a glazing with a seasonally dependent solar transmittance, Solar Energy **63**(2) 79-96 (Aug 1998), 3A1500
Photovoltaic utilization system with bang-bang self-adjusting maximum energy tracking controller, Int J Energy Res **22**(12) 1091-1098 (Oct 1998), 3A1501
Selected Proceedings of ISES 1997 Solar World Congress - Part I: Held in Taejon, South Korea during August 24 - 29, 1997, Solar Energy **64**(1-3) 3-120 (Sep 1998), 4T1527
Determination of atmospheric turbidity from the diffuse-beam broadband irradiance ratio, Solar Energy **63**(3) 135-146 (Sep 1998), 4A1528
Hourly diffuse fraction model with correction for variability and surface albedo, Solar Energy **63**(3) 173-183 (Sep 1998), 4A1529
Output variation of photovoltaic modules with environmental factors - II: Seasonal variation, Solar Energy **63**(3) 185-189 (Sep 1998), 4A1530
Simple method to estimate global radiation, Solar Energy **63**(3) 147-160 (Sep 1998), 4A1531
Assessing the overall performance of advanced glazing systems, Solar Energy **63**(4) 231-241 (Oct 1998), 5A1516
Design nomogram for long-term performance prediction of integrated collector-storage solar water heater, Int J Energy Res **22**(14) 1235-1248 (Nov 1998), 5A1517
Design, development and testing of a novel non-tracking solar cooker, Int J Energy Res **22**(13) 1191-1198 (Oct 1998), 5A1518
Directionally selective dielectric structures for solar radiation control, Solar Energy **63**(4) 269-275 (Oct 1998), 5A1519
Experimental comparison of a solar-assisted heat pump vs a conventional thermosyphon solar system, Int J Energy Res **22**(13) 1107-1120 (Oct 1998), 5A1520
First performance analysis of a silicon-cell microcontroller-based solar radiation monitoring system, Solar Energy **63**(5) 313-321 (Nov 1998), 5A1521
Multiplicative ARMA models to generate hourly series of global irradiation, Solar Energy **63**(5) 283-291 (Nov 1998), 5A1522
New correlation for direct beam solar radiation received by photovoltaic panel with sand dust accumulated on its surface, Solar Energy **63**(5) 323-333 (Nov 1998), 5A1523
Optical performance and directional characteristics of plastic film liquid layer solar water heaters, Solar Energy **63**(5) 293-302 (Nov 1998), 5A1524
Recent advances in electrochromics for smart window applications, Solar Energy **63**(4) 199-216 (Oct 1998), 5A1525
Ripple-based maximum power point tracking algorithm for a single-phase, grid-connected photovoltaic system, Solar Energy **63**(5) 277-282 (Nov 1998), 5A1526
Simulation model of the thermal performance of a natural convection-type solar tunnel dryer, Int J Energy Res **22**(13) 1165-1177 (Oct 1998), 5A1527
Studies on semi-cylindrical solar tunnel dryers: Year round collector performance, Int J Energy Res **22**(15) 1381-1395 (Dec 1998), 5A1528
Selected Proceedings of ISES 1997, Solar World Congress - Part II, Solar Energy **64**(4-6) 121-277 (Dec 1998), 6T1537
"Evaporative capacity" as a performance index for a solar-drier air-heater, Solar Energy **63**(6) 387-391 (Dec 1998), 6A1541
Application of concentrated solar radiation to high temperature detoxification and recycling processes of hazardous wastes, Solar Energy **65**(1) 25-31 (Jan 1999), 6A1542
Design aspects of solar thermochemical engineering - A case study: Two-step water-splitting cycle using the Fe_3O_4/FeO redox system, Solar Energy **65**(1) 43-53 (Jan 1999), 6A1543
Effect of a black insulation sheet on the evaporation rate from a shallow salt pond, Int J Energy Res **23**(1) 31-39 (Jan 1999), 6A1544
Extension of the Hermite expansion method for Cassegrainian solar central receiver systems, Solar Energy **63**(6) 337-343 (Dec 1998), 6A1545
Feasibility study of a solar desiccant air-conditioning system - Part I: Psychrometrics and analysis of the conditioned zone, Int J Energy Res **23**(1) 7-21 (Jan 1999), 6A1546
Gasification of waste tire and plastic (PET) by solar thermochemical process for solar energy utilization, Solar Energy **65**(1) 21-23 (Jan 1999), 6A1547
Matching of separately excited dc motors to photovoltaic generators for maximum power output, Solar Energy **63**(6) 375-385 (Dec 1998), 6A1548
New high-flux solar furnace for high-temperature thermochemical research, J Solar Energy Eng **121**(1) 77-80 (Feb 1999), 6A1549
Oxidation rates of carbon black particles exposed to concentrated sunlight, Solar Energy **65**(1) 15-19 (Jan 1999), 6A1550
Rectangular solar pond model incorporating empirical functions for air and soil temperatures, Solar Energy **63**(6) 345-353 (Dec 1998), 6A1551
Solar hydrogen production by using ferrites, Solar Energy **65**(1) 55-57 (Jan 1999), 6A1552
Solar thermochemical conversion of biomass, Solar Energy **65**(1) 3-13 (Jan 1999), 6A1553
Theoretical thermal performance analysis of two solar-assisted heat-pump systems, Int J Energy Res **23**(1) 1-6 (Jan 1999), 6A1554
Experimental studies on a solar thermal water pump, Appl Thermal Eng **19**(5) 449-459 (May 1999), 8A1554
Analysis of a new thermodynamic cycle for combined power and cooling using low and mid temperature solar collectors, J Solar Energy Eng **121**(2) 91-97 (May 1999), 9A1311
Analysis of daylighting and solar heat for cooling-dominated office buildings, Solar Energy **65**(4) 251-262 (Mar 1999), 9A1529
Analysis of the working process and mechanical losses in a stirling engine for a solar power unit, J Solar Energy Eng **121**(2) 121-127 (May 1999), 9A1530
Comparative performances of "tower-top" and "tower-reflector" central solar receivers, Solar Energy **65**(4) 207-226 (Mar 1999), 9A1531
Design of hybrid-photovoltaic power generator, with optimization of energy management, Solar Energy **65**(3) 143-157 (Feb 1999), 9A1532
Effects of vegetation roof shielding on indoor temperatures, Heat Tech **16**(2) 85-90 (1998), 9A1533
Frequency domain analysis of an electrical substitution radiometer, J Solar Energy Eng **121**(2) 110-115 (May 1999), 9A1534
Influence of the global radiation variability on the hourly diffuse fraction correlations, Solar Energy **65**(2) 119-131 (Feb 1999), 9A1535
Investigation of manganese-molybdenum-diethyldithiocarbamate complex as a potential system for solar energy conversion, Int J Energy Res **23**(3) 229-233 (Mar 1999), 9A1536
Light wells in residential building as a complementary daylight source, Solar Energy **65**(3) 197-206 (Feb 1999), 9A1537
Modeling the altitude effect on solar UV radiation, Solar Energy **65**(3) 181-187 (Feb 1999), 9A1538
Operational experience of a residential photovoltaic hybrid system, Solar Energy **65**(4) 227-235 (Mar 1999), 9A1539
Overhang shading factor values for windows of general azimuthal angle evaluated under extraterrestrial and terrestrial conditions, Int J Energy Res **23**(3) 235-245 (Mar 1999), 9A1540
Performance evaluation of a single solar air heater with N-subcollectors connected in different combinations, Int J Energy Res **23**(5) 403-414 (Apr 1999), 9A1541
SCATMES device for measurement of concentrated solar radiation, J Solar Energy Eng **121**(2) 116-120 (May 1999), 9A1542
Simple analytical model for solar chimneys, Int J Energy Res **23**(4) 345-349 (Mar 1999), 9A1543
Proceedings of Renewable and Advanced Energy Systems for the 21st Century (ASME, New York, 1999) 10N32
Comprehensive model of luminance, correlated color temperature and spectral distribution of skylight: Comparison with experimental data, Solar Energy **65**(5) 285-295 (Apr 1999), 10A1587
Convective layers generated in solar ponds with fertilizer salts, Solar Energy **65**(5) 323-334 (Apr 1999), 10A1588
Effect of thermal conductivity of absorber plate on the performance of a solar water heater, Appl Thermal Eng **19**(7) 733-741 (Jul 1999), 10A1589
Solar-powered ice-maker with the solid adsorption pair of activated carbon and methanol, Int J Energy Res **23**(6) 517-527 (May 1999), 10A1590
Triple basin active solar still, Int J Energy Res **23**(6) 529-542 (May 1999), 10A1591
Modeling of solar domestic water heating systems using artificial neural networks, Solar Energy **65**(6) 335-342 (Apr 1999), 11A1622
Modification of the Heliosat method to improve its performance, Solar Energy **65**(6) 369-377 (Apr 1999), 11A1623
Catalyst application in solar thermochemistry, Solar Energy **66**(2) 143-149 (Jun 1999), 12A1577
Daily isolation forecasting using a multi-stage neural network, Solar Energy **66**(3) 193-199 (Jun 1999), 12A1578
Effects of thermal gradients in a solar adsorption heat pump utilizing the zeolite-water pair, Appl Thermal Eng **19**(11) 1157-1172 (Nov 1999), 12A1579
Exergy analysis of ammonia-based solar thermochemical power systems, Solar Energy **66**(2) 103-115 (Jun 1999), 12A1580
Minimum gross and net environmental thermal impacts of solar fuels synthesis, Solar Energy **66**(2) 81-89 (Jun 1999), 12A1581
Minimum solar radiation requirements for solar fuels synthesis, Solar Energy **66**(2) 73-80 (Jun 1999), 12A1582
Optimum dispatch strategy using set points for a photovoltaic (PV)-diesel-battery hybrid power system, Solar Energy **66**(1) 1-9 (May 1999), 12A1583
Solar processing of materials: Opportunities and new frontiers, Solar Energy **66**(2) 117-132 (Jun 1999), 12A1584
Techno-economic analysis of a 10 MW_e solar thermal power plant using ammonia-based thermochemical energy storage, Solar Energy **66**(2) 91-101 (Jun 1999), 12A1585

506H. Geothermal energy

Performance prediction of a sub-slab heat exchanger for geothermal heat pumps, J Solar Energy Eng **120**(4) 282-288 (Nov 1998), 2A1513
Computer modeling for geothermal systems: Predicting carbonate and silica scale formation, CO_2 breakout and H_2S exchange, Transport Porous Media **33**(1-2) 173-204 (Nov 1998), 4A1461
Estimation of temperatures in geothermal wells during circulation and shut-in in the presence of lost circulation, Transport Porous Media **33**(1-2) 103-127 (Nov 1998), 4A1463
Layered thermohaline convection in hypersaline geothermal systems, Transport Porous Media **33**(1-2) 29-63 (Nov 1998), 4A1464
Model for deep geothermal brines - I: T-p-X state-space description, Transport Porous Media **33**(1-2) 65-80 (Nov 1998), 4A1465
Model for deep geothermal brines - II: Thermodynamic properties - density, Transport Porous Media **33**(1-2) 129-154 (Nov 1998), 4A1466
Model for deep geothermal brines - III: Thermodynamic properties - enthalpy and viscosity, Transport Porous Media **33**(1-2) 155-171 (Nov 1998), 4A1467
Permeability changes during the evolution of a geothermal field due to the dissolution and precipitation of quartz, Transport Porous Media **33**(1-2) 81-101 (Nov 1998), 4A1468
Simple model of a two-layered high-temperature liquid-dominated geothermal reservoir as a part of a large-scale hydrothermal convection system, Transport Porous Media **33**(1-2) 3-27 (Nov 1998), 4A1470
Liquid and vapor flow in superheated rock, Annu Rev Fluid Mech **31** 171-199 (1999), 7A1529

506J. Wind, ocean, and hydro energy

Application of measured loads to wind turbine fatigue and reliability analysis, J Solar Energy Eng **120**(4) 233-239 (Nov 1998), 2A1514
Nonlinear and random dynamics in wind engineering: Selected papers from the 2nd European and African Conference on wind engineering held in Genoa, Italy, June 22-26, 1997, Meccanica **33**(3) 215-330 (Jun 1998), 2T1515
Robust controller for a novel variable speed wind turbine transmission, J Solar Energy Eng **120**(4) 247-252 (Nov 1998), 2A1516
Short-term forecasting of wind speed and related electrical power, Solar Energy **63**(1) 61-68 (Jul 1998), 2A1517
Wave-energy conversion through relative motion between two single-mode oscillating bodies, J Offshore Mech Arctic Eng **121**(1) 32-38 (Feb 1999), 5A231
Efficient primary energy conversion in irregular waves, Ocean Eng **26**(7) 625-651 (Jul 1999), 5A1529
Influence of weak grids on wind turbines and economics of wind power plants in India, Wind Eng **22**(3) 171-181 (1998), 5T1530
Use of wind-wave spectral formulas to estimate wave energy resources, J Energy Resources Tech **120**(4) 314-317 (Dec 1998), 5A1531
Numerical analysis of Wells turbine aerodynamics, J Propulsion Power **15**(2) 253-259 (Mar-Apr 1999), 8A1555
Generic aspects enabling 2D wind tunnel data correlation to wind turbine field tests, Wind Eng **22**(4) 197-205 (1998), 9T1284
Influence of the meteorology mast on a cup anemometer, J Solar Energy Eng **121**(2) 128-131 (May 1999), 9A1544
Rotational speed control of an OWC wave power plant, J Offshore Mech Arctic Eng **121**(2) 65-70 (May 1999), 9A1545
Windpower: A US perspective, Wind Eng **22**(4) 185-188 (1998), 9A1546
Proceedings of the ASME 1999 Wind Energy Symposium (AIAA, Reston, VA, 1999) 10N34
Applicability of Darrieus-type turbine for extra-low head tidal power generation, Int J Offshore Polar Eng **8**(4) 318-320 (Dec 1998), 10T1592
Effect of guide vanes on the performance of a Wells turbine for wave energy conversion, Int J Offshore Polar Eng **8**(2) 155-160 (Jun 1998), 10A1593
Study on a wells turbine for wave power conversion: improvement of performance by the use of porous fences, Int J Offshore Polar Eng **8**(3) 222-227 (Sep 1998), 10A1594
Advantages of plate-type heat exchanger over tube-type heat exchanger for Ocean Thermal Energy Conversion power plant, Int J Offshore Polar Eng **9**(2) 158-159 (Jun 1999), 12T1387
Characterization of wind speed data according to wind direction, Solar Energy **66**(1) 57-64 (May 1999), 12A1586
Fundamentals of wind-power technology and environmental impact: An educational aid, Wind Eng **22**(5) 235-241 (1998), 12A1591

506L. Other enerrgy systems

Design and testing of solar dryers for processing food wastes, Appl Thermal Eng **18**(12) 1337-1346 (Dec 1998), 2A1306
Development of a low-cost oxy-hydrogen bio-fuel cell for generation of electricity using *NOSTOC* as a source of hydrogen, Int J Energy Res **22**(12) 1019-1028 (Oct 1998), 3A1502
Interconnected operation of small-hydroelectric and diesel power systems, Int J Energy Res **22**(12) 1039-1047 (Oct 1998), 3A1503
Optimal unit sizing of fuel cell cogeneration systems in consideration of performance degradation, Int J Energy Res **22**(12) 1075-1089 (Oct 1998), 3A1504
Feasibility of biomass domestic water heating: A case study, Int J Energy Res **23**(1) 23-30 (Jan 1999), 6A1555
Fourier series model to predict hourly heating and cooling energy use in commercial buildings with outdoor temperature as the only weather variable, J Solar Energy Eng **121**(1) 47-53 (Feb 1999), 6A1556
Generalization of the Fourier series approach to model hourly energy use in commercial buildings, J Solar Energy Eng **121**(1) 54-62 (Feb 1999), 6A1557
Prediction uncertainty of linear building energy use models with autocorrelated residuals, J Solar Energy Eng **121**(1) 63-68 (Feb 1999), 6A1558
Reaction kinetics of paddy husk thermal decomposition, J Solar Energy Eng **121**(1) 25-30 (Feb 1999), 6A1559
Energy recovery opportunities from wastes, J Propulsion Power **15**(2) 175-180 (Mar-Apr 1999), 8A1556
Open-cycle magnetohydrodynamic power generators, J Propulsion Power **15**(2) 195-203 (Mar-Apr 1999), 8A1557
Research and Development for new type fixed bed hot gas cleanup system, JSME Int J Ser B **41**(4) 1029-1034 (Nov 1998), 8T1558
Research and development of a new coal based combined cycle power plant concept, JSME Int J Ser B **41**(3) 685-690 (Aug 1998), 8T1559
2020 Vision - The engineering challenges of energy: The full report and recommendations of the engineering institutions, Proc Inst Mech Eng A **212**(A6) 389-483 (1998), 9T1547
Fuel cell bus operation at high altitude, Proc Inst Mech Eng A **213**(A1) 57-68 (1999), 11A1624
Greenhouse gas analysis of solar-thermal electricity generation, Solar Energy **65**(6) 353-368 (Apr 1999), 11A1625

506N. Energy storage

Ice storage system controls for the reduction of operating cost and energy use, J Solar Energy Eng **120**(4) 275-281 (Nov 1998), 2A1518
Thermal performance of a combined packed bed-solar pond system: A numerical study, Appl Thermal Eng **18**(12) 1207-1223 (Dec 1998), 2A1519
Use of berms in thermal energy storage systems: Energy-economic analysis, Solar Energy **63**(2) 69-78 (Aug 1998), 3A1505

Application of battery energy storage system to load frequency control of an isolated power system, Int J Energy Res **23**(3) 247-258 (Mar 1999), 9A1548
Heat transfer enhancement in a latent heat storage system, Solar Energy **65**(3) 171-180 (Feb 1999), 9A1549
Night cold storage system enhanced by radiative cooling: A modified Australian cooling system, Appl Thermal Eng **19**(9) 1013-1026 (Sep 1999), 11A1626

506Q. Energy distribution (incl pipelines, transmission lines, etc)

Collapse behavior of intact and damaged deepwater pipelines and the influence of the reeling method of installation, J Construct Steel Res **50**(2) 99-114 (May 1999), 8A1560
Total variation diminishing schemes for pressure transients, J Energy Resources Tech **121**(2) 122-130 (Jun 1999), 9A1550
Dynamic modeling of capsule separator for control of hydraulic capsule pipelines, J Dyn Syst Meas Control **121**(2) 233-241 (Jun 1999), 12A437

514. ENVIRONMENTAL MECHANICS

514B. Dispersion by air and water

Friction characteristics in unsteady open channel sewer flow, J Hydrology and Hydromech **46**(3) 189-206 (1998), 1T1082
Numerical simulation of pollutant dispersion and photochemical kinetics over complex terrain, Appl Math Model **22**(4-5) 313-329 (Apr-May 1998), 1A1471
Wind tunnel and numerical investigation of turbulent dispersion in coastal atmospheric boundary layers, Boundary-Layer Meteorol **87**(2) 255-273 (May 1998), 1A1472
Energy and the environment: Efficient utilization of energy and water resources, Appl Thermal Eng **18**(11) 921-1169 (Nov 1998), 2T1356
A 3D model for the simulation of pollutant dispersion in the near and far field in coastal waters (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(2) 225-246 (1998), 2A1520
Numerical methods for contaminant transport in rivers and estuaries, Comput Fluids **27**(8) 861-878 (Nov 1998), 2A1521
Study of concentration fluctuations in instantaneous clouds dispersing in the atmospheric surface layer for relative turbulent diffusion: Basic descriptive statistics, Boundary-Layer Meteorol **87**(3) 409-457 (Jun 1998), 2T1522
Transport in chemically and mechanically heterogeneous porous media IV: Large-scale mass equilibrium for solute transport with adsorption, Adv Water Resources **22**(1) 33-57 (Sep 1998), 3T1421
Transport in chemically and mechanically heterogeneous porous media Part V: Two-equation model for solute transport with adsorption, Adv Water Resources **22**(1) 59-86 (Sep 1998), 3T1422
Trajectory curvature as a selection criterion for valid Lagrangian stochastic dispersion models, Boundary-Layer Meteorol **88**(1) 77-86 (Jul 1998), 3T1506
Modeling of TN, TP and COD runoff in forest basin (Japanese), Proc JSCE **601**(VII-8) 73-84 (Aug 1998), 4A1011
Unsteadiness as a cause of non-equality of eddy diffusivities for heat and vapor at the base of an advective inversion, Boundary-Layer Meteorol **88**(3) 479-504 (Sep 1998), 4T1513
Study on the mechanism of salification and the long-term behaviors of salinocline in Lake Abashiri (Japanese), Proc JSCE **600**(II-44) 85-104 (Aug 1998), 4A1532
Scaling of flow and transport behavior in heterogeneous groundwater systems, Adv Water Resources **22**(3) 223-238 (Nov 1998), 5A1461
Analysis of subsurface contaminant migration and remediation using high performance computing, Adv Water Resources **22**(3) 203-221 (Nov 1998), 5T1532
Approximate solutions for developing shear dispersion with exchange between phases, J Fluid Mech **374** 195-219 (Nov 1998), 5A1533
Transport of waste leakage in stratified formations, Adv Water Resources **22**(2) 159-168 (Oct 1998), 5A1534
Stochastic macrodispersion models for gravel aquifers, J Hydraul Res **36**(6) 885-896 (1998), 6T1171
Travel time analysis of tracers and reactive solutes in the unsaturated zone, J Hydraul Res **36**(6) 979-1002 (1998), 6A1457
Connection between the Lagrangian stochastic-convective and cumulant expansion approaches for describing solute transport in heterogeneous porous media, Adv Water Resources **22**(4) 319-332 (Dec 1998), 6A1458
Effects of chemical reactions on iterative methods for implicit time stepping, Adv Water Resources **22**(4) 333-347 (Dec 1998), 6T1475
Analytical solutions for solute transport in saturated porous media with semi-infinite or finite thickness, Adv Water Resources **22**(5) 507-519 (Jan 1999), 7A1508
Transport with spatially variable kinetic sorption: Recursion formulation, Adv Water Resources **22**(5) 549-555 (Jan 1999), 7A1512
Kwinana coastal fumigation study - I: Program overview, experimental design and selected results, Boundary-Layer Meteorol **89**(3) 359-384 (Dec 1998), 7T1589
Non-point source water quality and quantity simulation at upper Torysa catchment - Part I: AGNPS model and analysis of monitoring results from experimental catchments (Czech), J Hydrology and Hydromech **46**(6) 373-397 (1998), 7T1590
Mixing and Dispersion in Stably Stratified Flows (Oxford UP, New York, 1999) 8N26
Density correction for Lagrangian particle dispersion models, Boundary-Layer Meteorol **90**(1) 155-167 (Jan 1999), 8A1190
Environmental aspects of lubricants, Proc Inst Mech Eng J: Eng Trib **213**(J1) 1-12 (1999), 8A1267
Transport of reactive tracers in rock fractures, J Fluid Mech **378** 335-356 (Jan 1999), 8A1467
Modeling of the environmental effect of cutting fluid, Trib Trans **42**(1) 168-173 (Jan 1999), 8T1561
Simple model of concentration fluctuations in neutrally buoyant clouds, Boundary-Layer Meteorol **90**(1) 117-153 (Jan 1999), 8A1562
Lower bounds on scalar dissipation in bounded rectilinear flows, Flow Turbulence Combust **60**(2) 125-156 (1998), 9T1234
Study on the short term behaviors of the density interface and the formation of wind-driven current in a brackish lake (Japanese), Proc JSCE **614**(II-46) 77-96 (Feb 1999), 10T289
Experiments on self-purification of heavy metal pollutants in natural rivers, J Hydrodyn **11**(1) 20-32 (1999), 10T1115
High-concentration-gradient dispersion in porous media: Experiments, analysis and approximations, Adv Water Resources **22**(7) 665-680 (Apr 1999), 10T1495
Adaptive-grid simulation of groundwater flow in heterogeneous aquifers, Adv Water Resources **22**(7) 681-696 (Apr 1999), 10A1500
Multiphase media approach: A key to modeling in environmental mechanics: Description of solute transport phenomena in porous media, J Theor Appl Mech **36**(3) 639-656 (1998), 10A1595
Contaminant dispersion in unsteady generalized Couette flow, Int J Eng Sci **37**(11) 1407-1423 (Sep 1999), 12A1587
Finite difference scheme for longitudinal dispersion in open channels, J Hydraul Res **37**(3) 389-406 (1999), 12A1588
Large-eddy simulation of air pollution dispersion in the nocturnal cloud-topped atmospheric boundary layer, Boundary-Layer Meteorol **91**(1) 145-157 (Apr 1999), 12A1589

514F. Snow and ice mechanics

Viscoelastic fictitious crack model for the fracture of sea ice, Mech Time-Dependent Mat **1**(4) 331-356 (1997), 1A877
Temperature distribution in cold ice, Rendiconti Lincei Matematica e Appl **VIII**(4) 299-312 (1997), 1A1326
Fracture mechanics approach to penetration of bottom crevasses on glaciers, Cold Regions Sci Tech **27**(3) 213-223 (Jun 1998), 1A1473
Laptev sea flaw lead: Detailed investigation on ice formation and export during 1991-1992 winter season, Cold Regions Sci Tech **27**(3) 225-243 (Jun 1998), 1T1474
Modeling of ice thermodynamics in natural water bodies, Cold Regions Sci Tech **27**(3) 153-178 (Jun 1998), 1T1475
Nonsimultaneous crushing during edge indentation of freshwater ice sheets, Cold Regions Sci Tech **27**(3) 179-195 (Jun 1998), 1A1476
Role of discrete failures in local ice loads, Cold Regions Sci Tech **27**(3) 197-211 (Jun 1998), 1A1477
Analysis of visual data from medium scale indentation experiments at Hobson's Choice Ice Island, Cold Regions Sci Tech **28**(1) 45-58 (Aug 1998), 4A1533
Numerical simulations of frazil ice dynamics in the upper layers of the ocean, Cold Regions Sci Tech **28**(1) 29-44 (Aug 1998), 4A1534
Particle-in-cell and finite difference approaches for the study of marginal ice zone problems, Cold Regions Sci Tech **28**(1) 1-28 (Aug 1998), 4T1535
Factors of occurrence of frost damage (Japanese), Proc JSCE **602**(VI-40) 93-105 (Sep 1998), 5T590
Gibbs thermodynamic potential of sea ice, Cold Regions Sci Tech **28**(2) 83-142 (Oct 1998), 5T1535
Pack ice convergence measurements by GPS-ARGOS ice beacons, Cold Regions Sci Tech **28**(2) 59-72 (Oct 1998), 5T1536
Heat stability analysis of embankment on the degrading permafrost district in the East of the Tibetan Plateau, China, Cold Regions Sci Tech **28**(3) 183-188 (Dec 1998), 7T1544
Antifreeze thermal ice core drilling: An effective approach to the acquisition of ice cores, Cold Regions Sci Tech **28**(3) 189-202 (Dec 1998), 7T1591
Design, construction, operation and numerical simulation of snow-melting system using geothermal energy collected by building pile (Japanese), Proc JSCE **609**(VI41) 99-110 (Dec 1998), 7A1592
Investigation of shear strength and modulus of fresh water ice by torsional tests (Chinese), J Dalian Univ Tech **39**(1) 31-33 (Jan 1999), 7A1593
Medium-scale indentation tests on sea ice at various speeds, Cold Regions Sci Tech **28**(3) 161-182 (Dec 1998), 7T1594
Sediment entrainment into ice via suspended ice crystals, Cold Regions Sci Tech **28**(3) 143-159 (Dec 1998), 7A1595
Brittle compressive failure of orthotropic ice under triaxial loading, Acta Mat **47**(3) 745-755 (Feb 1999), 8A800
Assessment of the wave-iceberg load combination factor, Int J Offshore Polar Eng **8**(1) 1-8 (Mar 1998), 10A315
Ice conditions in an anisotropic sea ice dynamics model, Int J Offshore Polar Eng **8**(1) 9-15 (Mar 1998), 10A1596
Laboratory simulation of wet icing buildup on HV insulators, Int J Offshore Polar Eng **8**(3) 167-172 (Sep 1998), 10A1597
Limit-force ice loads and their significance to offshore structures in the Beaufort sea, Int J Offshore Polar Eng **8**(1) 16-21 (Mar 1998), 10A1598
Measurement of ice growth and melt in the labrador pack ice, Int J Offshore Polar Eng **9**(1) 62-67 (Mar 1999), 10A1599
Significance of ice sheet's leading-edge roughness in relation to ice load, Int J Offshore Polar Eng **8**(3) 161-166 (Sep 1998), 10A1600
Choice of constitutive relations for an ice cover, J Appl Math Mech **63**(1) 73-78 (1999), 12A1590

514H. Waste management, pollution control

Process simulation model for a 2 ton H^1 incinerator: A combined bed combustion and furnace heat transfer model, Int J Energy Res **22**(11) 943-951 (Sep 1998), 3A1507
Enhancement of surfactants on the mutagenicity of surface water concentrate (Japanese), Proc JSCE **601**(VII-8) 13-21 (Aug 1998), 4A1536
Fourth international symposium on fusion nuclear technology Tokyo Japan, April 6 - 11 1997: Part C, Fusion Eng Des **42** 1-568 (Sep 1998), 4T1537
Probabilistic impact analysis of water resources and quality managements in the tone river basin (Japanese), Proc JSCE **601**(VII-8) 45-57 (Aug 1998), 4A1538
Study of the remodeling of waste polystyrene foam (Chinese), J Huazhong Univ Sci Tech **26**(8) 47-49 (Aug 1998), 4A1539
Urban inundation prediction by use of tank model (Japanese), Proc JSCE **600**(II-44) 1-10 (Aug 1998), 4T1540
Waste treatment system modeling using neural networks, Indian J Eng Mat Sci **5**(4) 182-188 (Aug 1998), 4A1541
Transport of waste leakage in stratified formations, Adv Water Resources **22**(2) 159-168 (Oct 1998), 5A1534
Assessment of atomization quality with respect to burnout for the incineration of organically contaminated waste waters, Combust Sci Tech **136**(1-6) 333-347 (Jul 1998), 5A1537
Distribution of porosity and density along the depth of compacted concrete waste (Japanese), Proc JSCE **602**(VI-40) 107-122 (Sep 1998), 5A1538
Leak detection system for landfill site on difference of electric potential, measured by the differential amplifier (Japanese), Proc JSCE **602**(VI-40) 75-91 (Sep 1998), 5A1539
Technical view of low level radioactive waste disposal (Japanese), Proc JSCE **602**(VI-40) 1-6 (Sep 1998), 5T1540
Application of the unsymmetric Lanczos method to radionuclide decay-chain transport in porous media, Int J Numer Methods Eng **44**(3) 355-372 (Jan 1999), 6A1560
Biological corrosion of concrete in sanitary sewerage systems and treatment plants (Japanese), J Soc Mat Sci Japan **47**(10) 1031-1040 (Oct 1998), 6T1561
Study on solution's physical characters of partitioning technology of high level liquid waste: Total partitioning process (Chinese), J Tsinghua Univ Sci Tech **38**(7) 21-23 (Jul 1998), 6A1562
Uncertainty in real-world particulate matter emission measurements from a transportable heavy-duty vehicle emissions testing laboratory, Heavy Vehicle Syst **5**(3-4) 399-420 (1998), 7T1464
Simultaneous reduction of NO_x and soot in diesel engines using a new mixture preparation method, JSME Int J Ser B **40**(4) 592-598 (Nov 1997), 8T1417
Research and Development for new type fixed bed hot gas cleanup system, JSME Int J Ser B **41**(4) 1029-1034 (Nov 1998), 8T1558
Modeling of the environmental effect of cutting fluid, Trib Trans **42**(1) 168-173 (Jan 1999), 8T1561
Combustion characteristics and pollution minimum technology for vacuum residue fired boiler, JSME Int J Ser B **41**(4) 1055-1060 (Nov 1998), 8T1563
Development of CO_2 recovery technology from combustion flue gas, JSME Int J Ser B **41**(4) 1007-1011 (Nov 1998), 8A1564
Development of fly ash quality control system, JSME Int J Ser B **41**(3) 759-764 (Aug 1998), 8A1565
Dynamic model of secondary process of urban wastewater treatment plants (Spanish), Rev Int Metodos Numer Calc Diseno Ing **14**(4) 525-538 (1998), 9A1551
Geotechnical Engineering of Landfills (Telford, UK, 1998) 10N31
Engineering model for designing compact toxic waste incinerators, Combust Sci Tech **139**(1-6) 293-328 (Oct 1998), 10A1601
Optimal design method of storm sewer network considered with manhole energy loss (Japanese), Proc JSCE **614**(II-46) 109-120 (Feb 1999), 10A1602
Two outfalls in an estuary: Cooperative pollution minimization, J Eng Math **35**(3) 285-298 (Apr 1999), 11A1085
Infiltration properties of covering soil into the void of buried concrete waste due to fluctuation of ground water level and its prevention (Japanese), Proc JSCE **616**(VI-42) 35-50 (Mar 1999), 11A1627
Finite difference scheme for longitudinal dispersion in open channels, J Hydraul Res **37**(3) 389-406 (1999), 12A1588
Fundamentals of wind-power technology and environmental impact: An educational aid, Wind Eng **22**(5) 235-241 (1998), 12A1591
Fuzzy model of control of water quality in reservoir - Part I: Development of the problem and methodology of the investigation (Czech), J Hydrology and Hydromech **47**(3) 153-179 (1999), 12A1592

514K. Other environmental problems

Designing for material separation: Lessons from automotive recycling, J Mech Des **120**(3) 501-509 (Sep 1998), 1A1478
Centrifuge modeling of the transport of a pulse of two contaminants through a clay layer, Geotechnique **48**(3) 421-425 (Jun 1998), 2T1523
Laboratory investigation of anaerobic microbial clogging in granular landfill drainage media, Geotechnique **48**(3) 389-401 (Jun 1998), 2A1524
Present trends in used oil recycling, Trib **29**(1) 7-38 (1998), 2A1525
Numerical analysis of 2D wind flow in and around rectangular buildings - Part I: Modeling and simulation, Wind Eng **22**(2) 81-97 (1998), 3T1062
Oil booms in rapid flow, Ship Tech Res **45**(3) 130-133 (Jul 1998), 3A1125
Lumping process of unsaturated flow equations considering infiltration loss (Japanese), Proc JSCE **600**(II-44) 11-21 (Aug 1998), 4A995
Numerical simulation model of flood-induced flows in urban residential area and the study of damage reduction (Japanese), Proc JSCE **600**(II-44) 23-36 (Aug 1998), 4A1023
Design and management of hyperintensive aquaculture tanks, J Hydraul Res **36**(5) 723-745 (1998), 4T1542
Fuzzy forecast of flood disaster caused by solar proton flares, Appl Math Comput **98**(1) 83-89 (Jan 1999), 4A1543
Treatment characteristics of high strength sewage sludge by thermophilic anaerobic digestion (Japanese), Proc JSCE **601**(VII-8) 35-43 (Aug 1998), 4A1544
Post-project evaluation of the Minamata Bay Environmental Restoration Project, Proc JSCE **602**(VI-40) 157-173 (Sep 1998), 5A1541
Fluids Engineering Division - 1998 (ASME, New York, 1998) 6N31
Behavior of light immiscible liquid contaminants in fractured aquifers, Geotechnique **48**(6) 747-760 (Dec 1998), 6A1563
Construction and management on living environment of temporary dwelling during the volcanic eruption of Mt Fugen in Unzen (Japanese), Proc JSCE **604**(IV-41) 85-98 (Oct 1998), 6T1564
Study on construction of temporary dwellings and problems caused by living long time on Hanshin-Awaji great earthquake (Japanese), Proc JSCE **604**(IV-41) 99-111 (Oct 1998), 6A1565
Existence of traveling waves in a biodegradation model for organic contaminants, SIAM J Math Anal **30**(1) 72-94 (Sep-Nov 1998), 7A1596
Environmental aspects of lubricants, Proc Inst Mech Eng J: Eng Trib **213**(J1) 1-12 (1999), 8A1267

Development of CO_2 recovery technology from combustion flue gas, JSME Int J Ser B **41**(4) 1007-1011 (Nov 1998), 8A1564
Development of fly ash quality control system, JSME Int J Ser B **41**(3) 759-764 (Aug 1998), 8A1565
Coupling model for terrestrial processes in arid areas and its application, Appl Math Mech **20**(1) 1-11 (Jan 1999), 9A1552
Geoenvironmental engineering, Comput Geotech **24**(1) 3-87 (1999), 9A1553
Curtains on board tanker for preventing split oil diffusion, Int J Offshore Polar Eng **8**(4) 311-317 (Dec 1998), 10A1603
Effect of land use upon river water chemistry: The Ishi river basin in Osaka Prefecture (Japanese), Proc JSCE **614**(II-46) 97-107 (Feb 1999), 10T1604
BEM solution of stochastic seawater intrusion problems, Eng Anal Boundary Elements **23**(7) 529-537 (Jul 1999), 11A1087
Combined use of BEM and genetic algorithms in groundwater flow and mass transport problems, Eng Anal Boundary Elements **23**(7) 555-565 (Jul 1999), 11A1468
Analytical model for the migration of oily pollutants in ground water (Polish), Arch Gornictwa **43**(2) 245-268 (1998), 11A1628
Subsurface drainage of sloping lands, Eng Anal Boundary Elements **23**(7) 619-624 (Jul 1999), 11A1629
Flows in fissured media, Arch Gornictwa **43**(3) 457-469 (1998), 12A1504
Modeling surface runoff and infiltration of rain by an elliptic-parabolic equation coupled with a first-order equation on the boundary, Arch Rational Mech Anal **146**(2) 157-182 (1999), 12A1515

514Y. Computational techniques

Contaminant transport under variable density flow in fractured porous media, Int J Numer Anal Methods Geomech **22**(7) 575-595 (Jul 1998), 1A1436
Fracture mechanics approach to penetration of bottom crevasses on glaciers, Cold Regions Sci Tech **27**(3) 213-223 (Jun 1998), 1A1473
Analysis of a full scale *in situ* test simulating repository conditions, Int J Numer Anal Methods Geomech **22**(7) 515-548 (Jul 1998), 1A1479
Numerical methods for contaminant transport in rivers and estuaries, Comput Fluids **27**(8) 861-878 (Nov 1998), 2A1521
Analysis of an upwind-mixed FEM for nonlinear contaminant transport equations, SIAM J Numer Anal **35**(5) 1709-1724 (Oct 1998), 3A1356
Numerical simulations of frazil ice dynamics in the upper layers of the ocean, Cold Regions Sci Tech **28**(1) 29-44 (Aug 1998), 4A1534
Analysis of subsurface contaminant migration and remediation using high performance computing, Adv Water Resources **22**(3) 203-221 (Nov 1998), 5T1532
Effects of chemical reactions on iterative methods for implicit time stepping, Adv Water Resources **22**(4) 333-347 (Dec 1998), 6T1475
Using CFD and mathematical optimization to investigate air pollution due to stacks, Int J Numer Methods Eng **44**(4) 551-565 (Feb 1999), 7A1597
Numerical methods for reactive transport on rectangular and streamline-oriented grids, Adv Water Resources **22**(7) 711-728 (Apr 1999), 10A1605
Large-eddy simulation of air pollution dispersion in the nocturnal cloud-topped atmospheric boundary layer, Boundary-Layer Meteorol **91**(1) 145-157 (Apr 1999), 12A1589

514Z. Experimental techniques

Nonsimultaneous crushing during edge indentation of freshwater ice sheets, Cold Regions Sci Tech **27**(3) 179-195 (Jun 1998), 1A1476
Laboratory investigation of anaerobic microbial clogging in granular landfill drainage media, Geotechnique **48**(3) 389-401 (Jun 1998), 2A1524
Development of comfort sensing system for human environment, Mechatronics **8**(5) 459-466 (Aug 1998), 3T441
Analysis of visual data from medium scale indentation experiments at Hobson's Choice Ice Island, Cold Regions Sci Tech **28**(1) 45-58 (Aug 1998), 4A1533
Portable capacitance snow sounding instrument, Cold Regions Sci Tech **28**(2) 73-81 (Oct 1998), 5A1542
Antifreeze thermal ice core drilling: An effective approach to the acquisition of ice cores, Cold Regions Sci Tech **28**(3) 189-202 (Dec 1998), 7T1591
Development and improvement of the Japanese coastal wave observation network (NOWPHAS) (Japanese), Proc JSCE **609**(VI41) 1-14 (Dec 1998), 7T1598
Observations of stratospheric aerosol using CPFM polarized limb radiances, J Atmos Sci **56**(2) 233-240 (Jan 1999), 8T1546
Retrieval of tropical cirrus thermal optical depth, crystal size, and shape using a dual-view instrument at 3.7 and 10.8 μm, J Atmos Sci **56**(1) 92-110 (Jan 1999), 8T1548
Retrieval of tropospheric carbon monoxide profiles from high-resolution interferometer observations: A new digital gas correlation method and application, J Atmos Sci **56**(2) 219-232 (Jan 1999), 8T1566
Automatic system for stepwise treatment of solid samples and application to pollution evaluation by measuring ion lixiviation rates in lichens, Lab Robotics Autom **11**(2) 121-126 (1999), 9A1554
Flow-injection immunoanalysis, a versatile and powerful tool for the automatic determination of environmental pollutants, Lab Robotics Autom **11**(2) 83-89 (1999), 9A1555
Simultaneous determination of fluoride and phenolics in water using flow-injection analysis, Lab Robotics Autom **11**(2) 105-109 (1999), 9A1556
Accelerator mass spectrometry measurements of South American rainwater samples, Acta Phys Polonica B **B30**(5) 1629-1638 (May 1999), 12A1593

IX. BIOENGINEERING

550. BIOMECHANICS

550B. Skeletal systems, bones, joints, ligaments, etc

Strain distribution in the ligament using photoelasticity: A direct application to the human ACL, Med Eng Phys **20**(3) 161-168 (Apr 1998), 1A928
Stress intensity factors in human bones by optical methods, J Mech Behavior Mat **9**(1) 17-22 (1998), 1A929
Clinical investigation of the pressure and shear stress on the trans-tibial stump with a prosthesis, Med Eng Phys **20**(3) 188-198 (Apr 1998), 1A1480
Creep contributes to the fatigue behavior of bovine trabecular bone, J Biomech Eng **120**(5) 647-654 (Oct 1998), 1A1481
Dependence of broadband ultrasound attenuation on the elastic anisotropy of trabecular bone, Proc Inst Mech Eng H **212**(H3) 223-227 (1998), 1A1482
Effect of geometry on the dynamic characteristics of the human skull, Int J Eng Sci **36**(9) 1047-1060 (Jul 1998), 1A1483
Effects of inserting a pressensor film into articular joints on the actual contact mechanics, J Biomech Eng **120**(5) 655-659 (Oct 1998), 1A1484
Global relationship between trabecular bone morphology and homogenized elastic properties, J Biomech Eng **120**(5) 640-646 (Oct 1998), 1A1485
Investigation into the effect of proteoglycan molecules on the tribological properties of cartilage joint tissues, Proc Inst Mech Eng H **212**(H3) 177-182 (1998), 1A1486
Load sharing between solid and fluid phase in articular cartilage - I: Experimental determination of in situ mechanical conditions in a porcine knee, J Biomech Eng **120**(5) 614-619 (Oct 1998), 1A1487
Load sharing between solid and fluid phases in articular cartilage - II: Comparison of experimental results and u-p FE predictions, J Biomech Eng **120**(5) 620-624 (Oct 1998), 1A1488
Mechanical properties and the hierarchical structure of bone, Med Eng Phys **20**(2) 92-102 (Mar 1998), 1A1489
Opening mechanics of the aortic root: Non homogeneous and non isotropic FEM model of biological structure, Mech Res Commun **25**(4) 405-413 (Jul-Aug 1998), 1T1490
Rapid prototyping and its application in bone's 3D reconstruction (Chinese), J Shanghai Jiaotong Univ **32**(5) 111-114 (May 1998), 1A1491
Strain inhomogeneity in the anterior cruciate ligament under application of external and muscular loads, J Biomech Eng **120**(4) 497-503 (Aug 1998), 1A1492
In vivo determination of the direction of rotation and moment-angle relationship of individual elbow muscles, J Biomech Eng **120**(5) 625-633 (Oct 1998), 1A1493
Intervertebral measurement of lumbar segmental motion with a new measuring device, Med Eng Phys **20**(2) 139-148 (Mar 1998), 1A1529
Quantification of holographic fringe data: Comparison of intact and implanted femurs, Med Eng Phys **20**(2) 114-123 (Mar 1998), 1A1534
Mechanical analysis for the design of a fiber reinforced pelvic prosthesis with the aid of CAD and CAE-techniques, Sci Eng Comp Mat **7**(3) 209-213 (1998), 2A1039
Biomechanics of age-related remodeling of vertebral trabecular bone structure, Strojnicky Casopis **49**(4) 281-290 (1998), 2A1526
Dynamic knee loads during gait predict proximal tibial bone distribution, J Biomech **31**(5) 423-430 (May 1998), 2A1527
Interspecies comparison of bone fracture properties, Bio-Med Mat Eng **8**(1) 1-9 (1998), 2A1528
Proceedings of the 11th Conference of the European Society of Biomechanics: July 8-11 1998, Toulouse, France, J Biomech **31**(S1) 1-182 (Jul 1998), 2T1529
Three-dimensional dynamic behavior of the human knee joint under impact loading, Med Eng Phys **20**(4) 276-290 (Jun 1998), 2A1530
Microcrack growth parameters for compact bone deduced from stiffness variations, J Biomech **31**(7) 587-592 (Jul 1998), 3A837
Analysis of acute mechanical insult in an animal model of post-traumatic osteoarthrosis, J Biomech Eng **120**(6) 704-709 (Dec 1998), 3A1508
Anterior cruciate ligament strain in-vivo: A review of previous work, J Biomech **31**(6) 519-525 (Jun 1998), 3A1509
Axial stiffness of human lumbar motion segments, force dependence, J Biomech **31**(6) 503-509 (Jun 1998), 3A1510
Calculation of bone pore water pressure due to mechanical loading, Int J Solids Struct **35**(34-35) 4981-4997 (Dec 1998), 3A1511
Degeneration affects the anisotropic and nonlinear behaviors of human anulus fibrosus in compression, J Biomech **31**(6) 535-544 (Jun 1998), 3A1512
Energy dissipation-based model for damage stimulated bone adaptation, J Biomech **31**(7) 579-586 (Jul 1998), 3A1513
Femoral neck strength of mouse in two loading configurations: Method evaluation and fracture characteristics, J Biomech **31**(8) 723-729 (Aug 1998), 3A1514
Increasing the moment arm of the tibialis anterior induces structural and functional adaptation: Implications for tendon transfer, J Biomech **31**(7) 593-599 (Jul 1998), 3A1515
Point cluster method for *in vivo* motion analysis: Applied to a study of knee kinematics, J Biomech Eng **120**(6) 743-749 (Dec 1998), 3A1516
Static and dynamic bending responses of the human cervical spine, J Biomech Eng **120**(6) 693-696 (Dec 1998), 3A1517
Temporal variation of applied inter fragmentary displacement at a bone fracture in harmony with maturation of the fracture callus, Med Eng Phys **20**(6) 480-484 (Sep 1998), 3A1518
Viscoelastic constitutive law in large deformations: Application to human knee ligaments and tendons, J Biomech **31**(8) 753-757 (Aug 1998), 3A1519
Estimates of the peak pressures in bone pore water, J Biomech Eng **120**(6) 697-703 (Dec 1998), 3A1545
High-accuracy 3D coordinate digitizing system for reconstructing the geometry of diarthrodial joints, J Biomech **31**(6) 571-577 (Jun 1998), 3A1556
Representative assessment of long bone shaft biomechanical properties: An optimized testing method, J Biomech **31**(8) 741-745 (Aug 1998), 3A1562
Effects of static magnetic field on bone formation of rat femurs, Med Eng Phys **20**(6) 397-402 (Sep 1998), 3A1572
Bone Research in Biomechanics (IOS, Netherlands, 1997) 4N36
Cumulative damage and the response of human bone in two-step loading fatigue, J Biomech **31**(9) 825-833 (Sep 1998), 4A771
Biomechanical properties of human os calcanei: Relationships with bone density and fractal evaluation of bone microarchitecture, J Biomech **31**(9) 817-824 (Sep 1998), 4A1545
Implementation of variable joint stiffness through antagonistic actuation using rolamite springs, Mech Machine Theory **34**(1) 27-40 (Jan 1999), 4A1546
Mechanics and stiffness limitations of a variable stiffness actuator for use in prosthetic limbs, Mech Machine Theory **34**(1) 7-25 (Jan 1999), 4A1547
Rapid prototyping for orthopaedic surgery, Proc Inst Mech Eng H **212**(H5) 383-393 (1998), 4T1548
Relation between mechanical stiffness and vibration transmission of fracture callus: An experimental study on rabbit tibia, Proc Inst Mech Eng H **212**(H5) 327-336 (1998), 4A1549
Vertebral curvature of sportsmen, J Sports Sci **16**(7) 621-628 (Oct 1998), 4A1550
Influence of muscle forces on femoral strain distribution, J Biomech **31**(9) 841-846 (Sep 1998), 4A1552
Knee joint motion: Description and measurement, Proc Inst Mech Eng H **212**(H5) 357-372 (1998), 4A1555
Fiber matrix model for interstitial fluid flow and permeability in ligaments and tendons, Biorheol **35**(2) 103-118 (Mar-Apr 1998), 4A1570
Accuracy of an electromagnetic measurement device and application to the measurement and description of knee joint motion, Proc Inst Mech Eng H **212**(H5) 347-355 (1998), 4A1575
Contact stress at articular surfaces in total joint replacements - Part I: Experimental methods, Bio-Med Mat Eng **8**(2) 91-110 (1998), 4A1581
Application of the Tsai-Wu quadratic multiaxial failure criterion to bovine trabecular bone, J Biomech Eng **121**(1) 99-107 (Feb 1999), 5A1543
Effect of boundary conditions on experimentally measured trabecular strain in the thoracic spine, J Biomech **31**(10) 891-897 (Oct 1998), 5A1544
Experimental verification and theoretical prediction of cartilage interstitial fluid pressurization at an impermeable contact interface in confined compression, J Biomech **31**(10) 927-934 (Oct 1998), 5A1545
Hip motion and moments during gait relate directly to proximal femoral bone mineral density in patients with hip osteoarthritis, J Biomech **31**(10) 919-925 (Oct 1998), 5A1546
Mechanical properties of collagen fascicles from the rabbit patellar tendon, J Biomech Eng **121**(1) 124-131 (Feb 1999), 5A1547
Numerical errors and uncertainties in FE modeling of trabecular bone, J Biomech **31**(10) 941-945 (Oct 1998), 5A1548
Repeatable alignment method and local coordinate description for knee joint testing and kinematic measurement, J Biomech **31**(10) 947-950 (Oct 1998), 5A1549
Dense-porous layered hydroxylapatite ceramic for orthopedic device coating prepared by tape casting technique, Adv Performance Mat **5**(3) 171-181 (Dec 1998), 6A610
Bone remodeling using sensitivity analysis, J Biomech **31**(11) 1059-1062 (Nov 1998), 6A1566
Bone size and mechanics at the femoral diaphysis across age and sex, J Biomech **31**(12) 1101-1110 (Dec 1998), 6A1567
Experimental factors governing the internal stress state of the intervertebral disc, Med Eng Phys **20**(8) 631-637 (Nov 1998), 6A1568
Finite element analysis of trabecular bone structure: A comparison of image-based meshing techniques, J Biomech **31**(12) 1187-1192 (Dec 1998), 6A1569
In vivo tendon forces correlate with activity level and remain bounded: Evidence in a rabbit flexor tendon model, J Biomech **31**(11) 1043-1049 (Nov 1998), 6A1570
Lateral force-displacement behavior of the human patella and its variation with knee flexion: A biomechanical study in vitro, J Biomech **31**(12) 1147-1152 (Dec 1998), 6A1571
Ligaments and articular contact guide passive knee flexion, J Biomech **31**(12) 1127-1136 (Dec 1998), 6A1572
Measuring the shape and size of microcracks in bone, J Biomech **31**(12) 1177-1180 (Dec 1998), 6A1573
Stress analysis of the human temporomandibular joint, Med Eng Phys **20**(8) 565-572 (Nov 1998), 6A1574
Human vertebral body apparent and hard tissue stiffness, J Biomech **31**(11) 1009-1015 (Nov 1998), 6A1591
Microcracks, microcracking, in-vivo, in-vitro, in-situ and other issues, J Biomech **32**(2) 209-211 (Feb 1999), 7T759
Poroelastic FE analysis of a bone specimen under cyclic loading, J Biomech **32**(2) 135-144 (Feb 1999), 7A786
"Equivalent geometry" of the knee and the prediction of tensions along the cruciates: An experimental study, J Biomech **32**(1) 35-48 (Jan 1999), 7A1599
Articulated external fixation of the ankle: Minimizing motion resistance by accurate axis alignment, J Biomech **32**(1) 63-70 (Jan 1999), 7A1600
Early stage-stress relaxation in compact bone, J Biomech **32**(1) 93-97 (Jan 1999), 7A1601
Failure model for ligaments, J Biomech **32**(2) 183-188 (Feb 1999), 7A1602
Intra-abdominal pressure mechanism for stabilizing the lumbar spine, J Biomech **32**(1) 13-17 (Jan 1999), 7A1603
Kinematics of the human ankle complex in passive flexion: A single dof, J Biomech **32**(2) 111-118 (Feb 1999), 7A1604
Neandertal knees and ankles: A comment on Miller and Gross, J Biomech **32**(2) 163-164 (Feb 1999), 7T1605
Tissue stresses and strain in trabeculae of a canine proximal femur can be quantified from computer reconstructions, J Biomech **32**(2) 165-173 (Feb 1999), 7A1606
Validation of a functional method for the estimation of hip joint center location, J Biomech **32**(1) 99-103 (Jan 1999), 7A1607
Selection of papers from the International Symposium on Gait Analysis (ISGA), Bio-Med Mat Eng **8**(3-4) 123-251 (1998), 7A1615
Wrist and digital joint motion produce unique flexor tendon force and excursion in the canine forelimb, J Biomech **32**(2) 175-181 (Feb 1999), 7A1617
Bone position estimation from skin marker coordinates using global optimization with joint constraints, J Biomech **32**(2) 129-134 (Feb 1999), 7A1625
Effects of testing methods on the flexural fatigue life of human cortical bone, J Biomech **32**(1) 105-109 (Jan 1999), 7A1626
Skeletal Tissue Mechanics (Springer-Verlag, New York, 1998) 8R35
Bone poroelasticity, J Biomech **32**(3) 217-238 (Mar 1999), 8A1567
Contact creep of biphasic cartilage layers, J Appl Mech **66**(1) 137-145 (Mar 1999), 8A1568

Effect of cartilage deformation on the laxity of the knee joint, Proc Inst Mech Eng H **213**(H1) 19-32 (1999), 8A1569
In vitro forces in the normal and cruciate-deficient knee during simulated squatting motion, J Biomech Eng **121**(2) 234-242 (Apr 1999), 8A1570
Magnitudes of local stress and strain along bony surfaces predict the course and type of fracture healing, J Biomech **32**(3) 255-266 (Mar 1999), 8A1571
Quantitative anatomy of the lumbar musculature, J Biomech **32**(3) 311-316 (Mar 1999), 8A1572
Results from demineralized bone creep tests suggest that collagen is responsible for the creep behavior of bone, J Biomech Eng **121**(2) 253-258 (Apr 1999), 8A1573
Role of the lamellar interface during torsional yielding of human cortical bone, J Biomech **32**(3) 303-310 (Mar 1999), 8A1574
Study on effect of graded facetectomy on change in lumbar motion segment torsional flexibility using 3D continuum contact representation for facet joints, J Biomech Eng **121**(2) 215-221 (Apr 1999), 8A1575
Surface friction in near-vertex head and neck impact increases risk of injury, J Biomech **32**(3) 293-301 (Mar 1999), 8A1576
Varying the mechanical properties of bone tissue by changing the amount of its structurally effective bone mineral content, Bio-Med Mat Eng **8**(5-6) 321-334 (1998), 8A1582
Accuracy of cancellous bone volume fraction measured by micro-CT scanning, J Biomech **32**(3) 323-326 (Mar 1999), 8A1596
In vitro measurement of the tracking pattern of the human patella, J Biomech Eng **121**(2) 222-228 (Apr 1999), 8A1597
Effect of phospholipidic boundary lubrication in rigid and compliant hemiarthroplasty models, Proc Inst Mech Eng H **213**(H1) 5-18 (1999), 8A1612
Finite element analysis of a gamma nail within a fractured femur, Med Eng Phys **20**(9) 677-683 (Nov-Dec 1998), 8A1614
Harvest of patellar tendon (bone-tendon-bone) autograft for ACL reconstruction significantly alters surface strain in the human patella, J Biomech Eng **121**(2) 229-233 (Apr 1999), 8A1615
Analytical approach to determine the in situ forces in the glenohumeral ligaments, J Biomech Eng **121**(3) 311-315 (Jun 1999), 9A1557
Automatic segmentation of magnetic resonance images of the trans-femoral residual limb, Med Eng Phys **20**(10) 756-763 (Dec 1998), 9A1558
Biomechanical studies of the rabbit patellar tendon after removal of its one-fourth or a half, J Biomech Eng **121**(3) 323-329 (Jun 1999), 9A1559
Estimation of *in vivo* bone mineral density (BMD) and shape characterization for diagnosing osteoporosis by ultrasonic inspection, J Biomech Eng **121**(3) 298-303 (Jun 1999), 9A1560
Fibril-network-reinforced biphasic model of cartilage in unconfined compression, J Biomech Eng **121**(3) 340-347 (Jun 1999), 9A1561
Material properties assignment to FE models of bone structures: A new method, Med Eng Phys **20**(10) 735-740 (Dec 1998), 9A1562
Method for quantifying time dependent changes in MR signal intensity of articular cartilage as a function of tissue deformation in intact joints, Med Eng Phys **20**(10) 741-749 (Dec 1998), 9A1563
Reduced gap strains induce changes in bone regeneration during distraction, J Biomech Eng **121**(3) 348-355 (Jun 1999), 9A1564
Use of quantitative ultrasound to monitor fracture healing: A feasibility study using phantoms, Med Eng Phys **20**(10) 781-786 (Dec 1998), 9A1565
Importance of quadriceps and hamstring muscle loading on knee kinematics and in-situ forces in the ACL, J Biomech **32**(4) 395-400 (Apr 1999), 9A1567
Elastic properties of trabecular and cortical bone tissues are similar: Results from two microscopic measurement techniques, J Biomech **32**(4) 437-441 (Apr 1999), 9A1577
New mechanical stimulator for cultured bone cells using piezoelectric actuator, J Biomech **32**(4) 427-430 (Apr 1999), 9A1578
Nonuniform swelling-induced residual strains in articular cartilage, J Biomech **32**(4) 401-408 (Apr 1999), 9A1591
Elasto-electric longitudinal harmonic waves in porous long bones filled with physiological fluid, J Theor Appl Mech **36**(3) 819-838 (1998), 10A1606
Fabric tensors in bone mechanics, Eng Trans **46**(1) 3-26 (1998), 10A1607
Geometric model of the human ankle joint, J Biomech **32**(6) 585-591 (Jun 1999), 10A1608
Composites theory predicts the dependence of stiffness of cartilage culture tissues on collagen volume fraction, J Biomech **32**(5) 503-509 (May 1999), 10A1619
Statistical characterization of piezoelectric coefficients d_{33} in cow bone, J Biomech **32**(6) 573-577 (Jun 1999), 10A1622
Modeling of location- and time-dependent deformation of chondrocytes during cartilage loading, J Biomech **32**(6) 563-572 (Jun 1999), 10A1627
Cellular solid criterion for predicting the axial-shear failure properties of bovine trabecular bone, J Biomech Eng **121**(4) 414-422 (Aug 1999), 11A1630
Computer graphics system for the analysis of joint kinematics, Machine Graphics & Vision **8**(1) 55-62 (1999), 11A1631
Cross-sectional geometry of the human femur in the mid-third region, Proc Inst Mech Eng H **213**(H2) 159-166 (1999), 11A1632
Kinematic modeling and the parameter estimation of the human knee joint, J Biomech Eng **121**(4) 406-413 (Aug 1999), 11A1633
Low-frequency acoustic sweep monitoring of bone integrity and osteoporosis, J Biomech Eng **121**(4) 423-431 (Aug 1999), 11A1634
Towards the standardization of *in vitro* load transfer investigations of hip prostheses, J Strain Anal Eng Des **34**(1) 1-15 (Jan 1999), 11A1635
Lubrication model of an artificial hip joint: Pressure profile versus inclination angle of the acetabular cup, J Trib **121**(3) 492-498 (Jul 1999), 12A1270
Anisotropic mechanical properties of lamellar bone using miniature cantilever bending specimens, J Biomech **32**(7) 647-654 (Jul 1999), 12A1594
Application of the reiterated homogenization to determination of effective moduli of a compact bone, J Theor Appl Mech **37**(3) 687-706 (1999), 12A1595
Biomechanical properties of tendons during lower-leg lengthening in dogs using the Ilizarov method, J Biomech **32**(8) 763-768 (Aug 1999), 12A1596
Bone remodeling theory applied to the study of n unit-elements model, J Biomech **32**(7) 743-747 (Jul 1999), 12A1597
Contribution to evaluation of effective moduli of trabecular bone with rod-like microstructure, J Theor Appl Mech **37**(3) 707-728 (1999), 12A1598
Contribution to modeling of anisotropic behavior of bone and bone remodeling, J Theor Appl Mech **37**(3) 537-554 (1999), 12A1599
Correlation between pre-operative periprosthetic bone density and post-operative bone loss in THA can be explained by strain-adaptive remodeling, J Biomech **32**(7) 695-703 (Jul 1999), 12A1600
Fatigue damage and reliability assessment of cemented hip prosthesis, J Theor Appl Mech **37**(3) 505-518 (1999), 12A1601
Fluid pressure relaxation depends upon osteonal microstructure: Modeling an oscillatory bending experiment, J Biomech **32**(7) 663-672 (Jul 1999), 12A1602
Growth, adaptation and aging of the skeletal system, J Theor Appl Mech **37**(3) 729-741 (1999), 12A1603
Hip joint forces in sheep, J Biomech **32**(8) 769-777 (Aug 1999), 12A1604
Load transfer analysis of the distal radius from in-vivo high-resolution CT-imaging, J Biomech **32**(8) 821-828 (Aug 1999), 12A1605
Modeling of the lubrication mechanism in human joints using micropolar fluid theory, J Theor Appl Mech **37**(3) 593-606 (1999), 12A1606
Numerical and experimental analysis of biomechanics of three lumbar vertebrae, J Theor Appl Mech **37**(3) 413-434 (1999), 12A1607
Numerical evaluation of sensitivity of stress distribution in bone to geometric parameters of endoprosthesis, J Theor Appl Mech **37**(3) 555-577 (1999), 12A1608
Numerical simulation of adaptive bone remodeling, J Theor Appl Mech **37**(3) 639-658 (1999), 12A1609
Numerical simulation of bone-implant systems using a more realistic model of the contact interfaces with adhesion, J Theor Appl Mech **37**(3) 659-686 (1999), 12A1610
Optimality conditions in modeling of bone adaptation phenomenon, J Theor Appl Mech **37**(3) 607-623 (1999), 12A1611
Role of an effective isotropic tissue modulus in the elastic properties of cancellous bone, J Biomech **32**(7) 673-680 (Jul 1999), 12A1612
Stiffness characteristics of a healthy or damaged by aseptic necrosis femoral head, J Theor Appl Mech **37**(3) 625-638 (1999), 12A1613
Strain rate effect on the mechanical behavior of the anterior cruciate ligament-bone complex, Med Eng Phys **21**(2) 95-100 (Mar 1999), 12A1614
New device to quantify regenerate torsional stiffness in distraction osteogenesis, J Biomech **32**(8) 857-860 (Aug 1999), 12A1651
Wide band ultrasonic spectroscopy in studying bones and porous implants, J Theor Appl Mech **37**(3) 579-591 (1999), 12A1654
Effect of bone quality on the forces generated by compression screws, J Biomech **32**(8) 861-864 (Aug 1999), 12A1658
Mathematical stiffness matrix for characterizing mechanical performance of the orthofix DAF, Med Eng Phys **21**(2) 65-71 (Mar 1999), 12A1660
Relation between surface roughness and interfacial shear strength for bone-anchored implants: A mathematical model, J Biomech **32**(8) 829-836 (Aug 1999), 12A1662

550C. Muscle mechanics

In vivo determination of the direction of rotation and moment-angle relationship of individual elbow muscles, J Biomech Eng **120**(5) 625-633 (Oct 1998), 1A1493
Muscular resistance to varus and valgus loads at the elbow, J Biomech Eng **120**(5) 634-639 (Oct 1998), 1A1494
Algorithm for detecting the onset of muscle contraction by EMG signal processing, Med Eng Phys **20**(3) 211-215 (Apr 1998), 1A1522
Eccentric training does not increase sarcomere number in rabbit dorsiflexor muscles, J Biomech **31**(5) 499-501 (May 1998), 2A1531
Force feedback control of motor unit recruitment in isometric muscle, J Biomech **31**(5) 469-478 (May 1998), 2A1532
Mechanical blood-tissue interaction in contracting muscles: A model study, J Biomech **31**(5) 401-409 (May 1998), 2A1533
Mechanical properties of the tendinous equine interosseus muscle are affected by *in vivo* transducer implantation, J Biomech **31**(5) 485-490 (May 1998), 2T1534
Nonlinear generalized predictive control applied to muscle relaxant anaesthesia, Int J Control **71**(2) 239-257 (Sep 1998), 3T399
Hill type model of rate medial gastrocnemius muscle that accounts for shortening history effects, J Biomech **31**(6) 555-563 (Jun 1998), 3A1520
Lumbar muscle force estimation using a subject-invariant 5-parameter EMG-based model, J Biomech **31**(7) 667-672 (Jul 1998), 3A1521
Model predicting individual shoulder muscle forces based on relationship between electromyographic and 3D external forces in static position, J Biomech **31**(8) 731-739 (Aug 1998), 3A1522
Mechanical advantage of the thumb muscles, J Biomech **31**(6) 565-570 (Jun 1998), 3A1527
In vivo measurement of the series elasticity release curve of human triceps surae muscle, J Biomech **31**(9) 793-800 (Sep 1998), 4A1551
Influence of muscle forces on femoral strain distribution, J Biomech **31**(9) 841-846 (Sep 1998), 4A1552
Modeling of muscle behavior by the FEM using Hill's three-element model, Int J Numer Methods Eng **43**(5) 941-953 (Nov 1998), 4A1553
Stereotypic muscle-torque patterns are systematically adopted during acquisition of a multi-articular kicking task, J Biomech **31**(9) 809-816 (Sep 1998), 4A1557
Torque action of two-joint muscles in the swing period of stiff-legged gait: A forward dynamic model analysis, J Biomech **31**(9) 835-840 (Sep 1998), 4A1558
Carnosine and taurine contents in individual fibers of human vastus lateralis muscle, J Sports Sci **16**(7) 639-643 (Oct 1998), 4T1559
Can a rheological muscle model predict force depression-enhancement, J Biomech **31**(12) 1093-1099 (Dec 1998), 6A1575
Distribution-moment model of deactivation in cardiac muscle, J Biomech **31**(11) 1069-1073 (Nov 1998), 6A1576
Force depression following skeletal muscle shortening is long lasting, J Biomech **31**(12) 1163-1168 (Dec 1998), 6A1577
Fundamentals of power spectra of extracellular potentials produced by a skeletal muscle fiber of finite length - Part I: Effect of fiber anatomy, Med Eng Phys **20**(8) 580-587 (Nov 1998), 6A1578
Model for mylohyoid muscle mechanics, J Biomech **31**(11) 1017-1024 (Nov 1998), 6A1579
Coordination of two-joint leg muscles during load lifting consistent with the strategy of minimum fatigue, J Biomech **31**(11) 1025-1034 (Nov 1998), 6A1581
Study on robot arm with characteristics of human muscle (Japanese), J Japan Soc Precision Eng **64**(12) 1768-1772 (Dec 1998), 7A411
Acute effects of intramuscular aponeurotomy on rat gastrocnemius medialis: Force transmission, muscle force and sarcomere length, J Biomech **32**(1) 71-79 (Jan 1999), 7A1608
Changes in muscle-tendon length during the take-off of a running long jump, J Sports Sci **17**(2) 159-172 (Feb 1999), 7A1609
Effects of the antagonist muscle force on intersegmental loading during isokinetic efforts of the knee extensors, J Biomech **32**(1) 19-25 (Jan 1999), 7A1610
Sarcomere length varies with wrist ulnar deviation but not forearm pronation in the extensor carpi radialis brevis muscle, J Biomech **32**(2) 199-202 (Feb 1999), 7A1611
Sensitivity of single-equivalent trunk extensor muscle models to anatomical and functional assumptions, J Biomech **32**(2) 195-198 (Feb 1999), 7A1612
Three-dimensional dynamical capabilities of the human masticatory muscles, J Biomech **32**(2) 145-152 (Feb 1999), 7A1613
Quantitative anatomy of the lumbar musculature, J Biomech **32**(3) 311-316 (Mar 1999), 8A1572
Fundamentals of power spectra of extracellular potentials produced by a skeletal muscle fiber of finite length - Part II: Effect of parameters altering with functional state, Med Eng Phys **20**(9) 702-707 (Nov-Dec 1998), 8A1594
Biomechanics of human quadriceps muscles during electrical stimulation, J Biomech **32**(4) 347-357 (Apr 1999), 9A1566
Importance of quadriceps and hamstring muscle loading on knee kinematics and in-situ forces in the ACL, J Biomech **32**(4) 395-400 (Apr 1999), 9A1567
Muscle as a collagen fiber reinforced composite: A review of force transmission in muscle and whole limb, J Biomech **32**(4) 329-345 (Apr 1999), 9A1568
Prediction of antagonistic muscle forces using inverse dynamic optimization during flexion-extension of the knee, J Biomech Eng **121**(3) 316-322 (Jun 1999), 9A1569
Transmission of forces within mammalian skeletal muscles, J Biomech **32**(4) 371-380 (Apr 1999), 9A1570
Viscous properties of human muscle during contraction, J Biomech **32**(6) 555-562 (Jun 1999), 10A1609
Effect of muscle stiffness and damping on simulated impact force peaks during running, J Biomech **32**(8) 849-856 (Aug 1999), 12A1615
Estimation of trunk muscle forces using the FEM and in vivo loads measured by telemeterized internal spinal fixation devices, J Biomech **32**(7) 727-731 (Jul 1999), 12A1616
Indirect evidence of human skeletal muscle damage and collagen breakdown after eccentric muscle actions, J Sports Sci **17**(5) 397-402 (May 1999), 12A1617
Modeling concentric contraction of muscle using an improved cross-bridge model, J Biomech **32**(8) 837-848 (Aug 1999), 12A1618
Skeletal muscle transverse strain during isometric contraction at different lengths, J Biomech **32**(8) 755-762 (Aug 1999), 12A1619
Muscular soreness following prolonged intermittent high-intensity shuttle running, J Sports Sci **17**(5) 387-395 (May 1999), 12A1667

550D. Kinesiology

Penn State Safety Floor - Part 1: Design parameters associated with walking deflections, J Biomech Eng **120**(4) 518-526 (Aug 1998), 1A1495
Sensitivity analysis of segment models to estimate the net reaction moments at the L5-S1 joint in lifting, Med Eng Phys **20**(2) 153-158 (Mar 1998), 1A1496
Three-dimensional dynamic behavior of the human knee joint under impact loading, Med Eng Phys **20**(4) 276-290 (Jun 1998), 2A1530
Eccentric training does not increase sarcomere number in rabbit dorsiflexor muscles, J Biomech **31**(5) 499-501 (May 1998), 2A1531
1omparative study of impact dynamics: Wobbling mass model versus rigid body models, J Biomech **31**(5) 439-444 (May 1998), 2A1535
Codman's paradox of the arm rotations is not a paradox: Mathematical validation, Med Eng Phys **20**(4) 257-260 (Jun 1998), 2A1536
Feature extraction for leg health condition based on normal gait pattern, J Japan Soc Precision Eng **64**(7) 1045-1046 (Jul 1998), 2T1537
Head injury criterion functional, Appl Math Comput **96**(1) 1-16 (Oct 1998), 2A1538
Kinematics of the knee joint in deep flexion: A radiographic assessment, Med Eng Phys **20**(4) 302-307 (Jun 1998), 2A1539
Comparisons of the ski turn techniques of experienced and intermediate skiers, J Sports Sci **16**(6) 545-559 (Aug 1998), 2T1572
Increasing the moment arm of the tibialis anterior induces structural and functional adaptation: Implications for tendon transfer, J Biomech **31**(7) 593-599 (Jul 1998), 3A1515
Point cluster method for *in vivo* motion analysis: Applied to a study of knee kinematics, J Biomech Eng **120**(6) 743-749 (Dec 1998), 3A1516
Static and dynamic bending responses of the human cervical spine, J Biomech Eng **120**(6) 693-696 (Dec 1998), 3A1517
Model predicting individual shoulder muscle forces based on relationship between electromyographic and 3D external forces in static position, J Biomech **31**(8) 731-739 (Aug 1998), 3A1522
Asymmetric low back loading in asymmetric lifting movements is not prevented by pelvic twist, J Biomech **31**(6) 527-534 (Jun 1998), 3A1523
Effect of intersegmental knee moments on patellofemoral contact mechanics in cycling, J Biomech **31**(8) 677-683 (Aug 1998), 3A1524
Increasing quadriceps loads affect the lengths of the ligaments and the kinematics of the knee, J Biomech Eng **120**(6) 750-756 (Dec 1998), 3A1525
Large index-fingertip forces are produced by subject-independent patterns of muscle excitation, J Biomech **31**(8) 693-703 (Aug 1998), 3T1526
Mechanical advantage of the thumb muscles, J Biomech **31**(6) 565-570 (Jun 1998), 3A1527
One-year changes in hind limb kinematics, ground reaction forces and knee stability in an experimental model of osteoarthritis, J Biomech **31**(6) 511-517 (Jun 1998), 3A1528
Placing the trailing foot closer to an obstacle reduces flexion of the hip, knee, and ankle to increase the

risk of tripping, J Biomech **31**(8) 685-691 (Aug 1998), 3A1529
Static torque-angle relation of human elbow joint estimated with artificial neural network technique, J Biomech **31**(6) 545-554 (Jun 1998), 3A1530
Diet and body composition of female recreational runners of differing menstrual status, J Sports Sci **16**(7) 629-637 (Oct 1998), 4A1554
Knee joint motion: Description and measurement, Proc Inst Mech Eng H **212**(H5) 357-372 (1998), 4A1555
Speed dependency of motion pattern consistency, J Biomech **31**(9) 769-772 (Sep 1998), 4A1556
Stereotypic muscle-torque patterns are systematically adopted during acquisition of a multi-articular kicking task, J Biomech **31**(9) 809-816 (Sep 1998), 4A1557
Torque action of two-joint muscles in the swing period of stiff-legged gait: A forward dynamic model analysis, J Biomech **31**(9) 835-840 (Sep 1998), 4A1558
Accuracy of an electromagnetic measurement device and application to the measurement and description of knee joint motion, Proc Inst Mech Eng H **212**(H5) 347-355 (1998), 4A1575
Method and device for measuring force transfers between the deep flexors in the musician's hand, J Biomech **31**(9) 773-779 (Sep 1998), 4A1576
Analytical model of the knee for estimation of internal forces during exercise, J Biomech **31**(10) 963-967 (Oct 1998), 5A1550
Comparison of new approaches to estimate mechanical output of individual joints in vertical jumps, J Biomech **31**(10) 951-955 (Oct 1998), 5A1551
Dynamics of effortful touch and interlimb coordination, J Biomech **31**(10) 873-882 (Oct 1998), 5A1552
Hub dynamometer for measurement of wheel forces in off-road bicycling, J Biomech Eng **121**(1) 132-137 (Feb 1999), 5A1553
Stability of 3D trunk motion, J Beijing IT **7**(1) 49-54 (Mar 1998), 5A1554
Three-dimensional modeling of the motion range of axial rotation of the upper arm, J Biomech **31**(10) 899-908 (Oct 1998), 5A1555
Multivariate changes in coordination of postural control following spaceflight, J Biomech **31**(10) 883-889 (Oct 1998), 5A1572
Assessment of dynamic finger forces in pianists: Effects of training and expertise, J Biomech **31**(11) 1063-1067 (Nov 1998), 6A1580
Coordination of two-joint leg muscles during load lifting consistent with the strategy of minimum fatigue, J Biomech **31**(11) 1025-1034 (Nov 1998), 6A1581
Frontal surface area measurements in national calibre swimmers, Sports Eng **1**(1) 51-55 (Sep 1998), 6A1582
Optimization-based differential kinematic modeling exhibits a velocity-control strategy for dynamic posture determination in seated reaching movements, J Biomech **31**(11) 1035-1042 (Nov 1998), 6A1583
Prediction of upper extremity impact forces during falls on the outstretched hand, J Biomech **31**(12) 1169-1176 (Dec 1998), 6A1584
Skin movement artefact assessment and compensation in the estimation of knee-joint kinematics, J Biomech **31**(11) 977-984 (Nov 1998), 6A1585
Static versus dynamic predictions of protective stepping following waist-pull perturbations in young and older adults, J Biomech **31**(12) 1111-1118 (Dec 1998), 6A1586
Weight-bearing patterns on the knees of preterm infants, Med Eng Phys **20**(8) 625-628 (Nov 1998), 6A1587
Intra-abdominal pressure mechanism for stabilizing the lumbar spine, J Biomech **32**(1) 13-17 (Jan 1999), 7A1603
Multi-phase optimal control technique for the simulation of a human vertical jump, J Biomech **32**(1) 87-91 (Jan 1999), 7A1614
Selection of papers from the International Symposium on Gait Analysis (ISGA), Bio-Med Mat Eng **8**(3-4) 123-251 (1998), 7A1615
Simulation study on the micro-organism model swimming by bending motion (Japanese), J Japan Soc Precision Eng **64**(12) 1762-1767 (Dec 1998), 7A1616
Wrist and digital joint motion produce unique flexor tendon force and excursion in the canine forelimb, J Biomech **32**(2) 175-181 (Feb 1999), 7A1617
Bone position estimation from skin marker coordinates using global optimization with joint constraints, J Biomech **32**(2) 129-134 (Feb 1999), 7A1625
In vitro forces in the normal and cruciate-deficient knee during simulated squatting motion, J Biomech Eng **121**(2) 234-242 (Apr 1999), 8A1570
Study on effect of graded facetectomy on change in lumbar motion segment torsional flexibility using 3D continuum contact representation for facet joints, J Biomech Eng **121**(2) 215-221 (Apr 1999), 8A1575
Dynamic lumped element response of the human fingerpad, J Biomech Eng **121**(2) 178-183 (Apr 1999), 8A1577
Experimental and theoretical simulations of climbing falls, Sports Eng **1**(2) 79-91 (Nov 1998), 8A1578
Leg stiffness primarily depends on ankle stiffness during human hopping, J Biomech **32**(3) 267-273 (Mar 1999), 8A1579
Optimization algorithm performance in determining optimal controls in human movement analyses, J Biomech Eng **121**(2) 249-252 (Apr 1999), 8A1580
Analysis of ankle deflection during a forward fall in snowboarding, J Biomech Eng **121**(2) 243-248 (Apr 1999), 8A1624
Prediction of antagonistic muscle forces using inverse dynamic optimization during flexion-extension of the knee, J Biomech Eng **121**(3) 316-322 (Jun 1999), 9A1569
Transmission of forces within mammalian skeletal muscles, J Biomech **32**(4) 371-380 (Apr 1999), 9A1570
Structural and functional predictors of regional peak pressures under the foot during walking, J Biomech **32**(4) 359-370 (Apr 1999), 9A1571
Methodological and technological implications of quantitative human movement analysis in long term space flights, J Biomech **32**(4) 431-436 (Apr 1999), 9A1596
Theoretical analysis of preferred pedaling rate selection in endurance cycling, J Biomech **32**(4) 409-415 (Apr 1999), 9A1606
Altered kinetic strategy for the control of swing limb elevation over obstacles in unilateral below-knee amputee gait, J Biomech **32**(5) 545-549 (May 1999), 10A1610
Behavior-based inverse kinematics algorithm to predict arm prehension postures for computer-aided ergonomic evaluation, J Biomech **32**(5) 453-460 (May 1999), 10A1611
Identification of passive elastic joint moments in the lower extremities, J Biomech **32**(5) 539-544 (May 1999), 10A1612
Modeling, simulation and optimization of a human vertical jump, J Biomech **32**(5) 521-530 (May 1999), 10A1613
Validation protocol of models for center of mass estimation, J Biomech **32**(6) 609-613 (Jun 1999), 10A1614
Variation of rotation moment arms with hip flexion, J Biomech **32**(5) 493-501 (May 1999), 10A1615
Plantar soft tissue thickness during ground contact in walking, J Biomech **32**(6) 623-628 (Jun 1999), 10A1621
Nanoscale design of snake skin for reptation locomotions via friction anisotropy, J Biomech **32**(5) 477-484 (May 1999), 10A1636
Calibration of the "Flock of Birds" electromagnetic tracking device and its application in shoulder motion studies, J Biomech **32**(6) 629-633 (Jun 1999), 10A1640
Marker-based measurement procedure for unconstrained wrist and elbow motions, J Biomech **32**(6) 615-621 (Jun 1999), 10A1641
Computer graphics system for the analysis of joint kinematics, Machine Graphics & Vision **8**(1) 55-62 (1999), 11A1631
Investigations for the dynamical analysis of human motion, Multibody Syst Dyn **3**(1) 1-20 (Feb 1999), 11A1636
Hip joint forces in sheep, J Biomech **32**(8) 769-777 (Aug 1999), 12A1604
Effect of muscle stiffness and damping on simulated impact force peaks during running, J Biomech **32**(8) 849-856 (Aug 1999), 12A1615
Abdominal muscles contribute in a minor way to peak spinal compression in lifting, J Biomech **32**(7) 655-662 (Jul 1999), 12A1620
Development of a set of equations describing joint trajectories during para-sagittal lifting, J Biomech **32**(8) 871-876 (Aug 1999), 12A1621
Factors influencing the quick onset of stepping following postural perturbation, J Biomech **32**(8) 795-802 (Aug 1999), 12A1622
Practical gait analysis system using gyroscopes, Med Eng Phys **21**(2) 87-94 (Mar 1999), 12A1623
Rectifying postures reconstructed from joint angles to meet constraints, J Biomech **32**(7) 733-736 (Jul 1999), 12A1624
Simulated movement termination for balance recovery: Can movement strategies be sought to maintain stability in the presence of slipping or forced sliding?, J Biomech **32**(8) 779-786 (Aug 1999), 12A1625
Total trunk muscle force and spinal compression are lower in asymmetric moments as compared to pure extension moments, J Biomech **32**(7) 681-687 (Jul 1999), 12A1626
Mechanical energetic processes during the giant swing exercise before dismounts and flight elements on the high bar and the uneven parallel bars, J Biomech **32**(8) 811-820 (Aug 1999), 12A1661
Runners adjust leg stiffness for their first step on a new running surface, J Biomech **32**(8) 787-794 (Aug 1999), 12A1669

550E. Mechanical properties of tissues and blood

Transversely isotropic biphasic model for unconfined compression of growth plate and chondroepiphysis, J Biomech Eng **120**(4) 491-496 (Aug 1998), 1A13
Analytical method for the determination of along-fiber to cross-fiber elastic modulus ratio in ventricular myocardium: A feasibility study, Med Eng Phys **20**(2) 103-108 (Mar 1998), 1A1497
Anisotropy of the elastic modulus of trabecular bone specimens from different anatomical locations, Med Eng Phys **20**(2) 124-131 (Mar 1998), 1A1498
Approach for the stress analysis of transversely isotropic biphasic cartilage under impact load, J Biomech Eng **120**(5) 608-613 (Oct 1998), 1A1499
Elastic-viscoplastic model for excised facial tissues, J Biomech Eng **120**(5) 686-689 (Oct 1998), 1A1500
Investigation of biphasic failure criteria for impact-induced fissuring of articular cartilage, J Biomech Eng **120**(4) 536-537 (Aug 1998), 1A1501
Local mechanical anisotropy in human cranial dura mater allografts, J Biomech Eng **120**(4) 541-544 (Aug 1998), 1A1502
Mechanical analysis of heterogeneous, atherosclerotic human aorta, J Biomech Eng **120**(5) 602-607 (Oct 1998), 1A1503
General computing method for spatial cartilage thickness from co-planar MRI, Med Eng Phys **20**(3) 169-176 (Apr 1998), 1A1524
Recruitment-based rheological model for mechanical behavior of soft tissue, Biorheol **35**(1) 17-35 (Jan-Feb 1998), 2A1056
Interspecies comparison of bone fracture properties, Bio-Med Mat Eng **8**(1) 1-9 (1998), 2A1528
Proceedings of the 11th Conference of the European Society of Biomechanics: July 8-11 1998, Toulouse, France, J Biomech **31**(S1) 1-182 (Jul 1998), 2T1529
Compressive strength of articular cartilage, Proc Inst Mech Eng H **212**(H4) 273-280 (1998), 2A1540
Incompressibility of the solid matrix of articular cartilage under high hydrostatic pressures, J Biomech **31**(5) 445-451 (May 1998), 2A1541
Thermomechanical analysis of collagen crosslinking in the developing lamb pericardium, Biorheol **35**(1) 1-16 (Jan-Feb 1998), 2A1542
Kinetics of thrombin- and SFLLRN-induced aggregation of human platelets in flow through tubes, Biorheol **35**(1) 53-68 (Jan-Feb 1998), 2T1550
Method for the determination of mechanical parameters in a porous elastically deformable medium: Applications to biological soft tissues, Int J Solids Struct **35**(34-35) 4963-4979 (Dec 1998), 3A4
Thermal stresses from large volumetric expansion during freezing of biomaterials, J Biomech Eng **120**(6) 720-726 (Dec 1998), 3A1334
Degeneration affects the anisotropic and nonlinear behaviors of human anulus fibrosus in compression, J Biomech **31**(6) 535-544 (Jun 1998), 3A1512
Effect of hip stem material modulus on surface strain in human femora, J Biomech **31**(7) 619-628 (Jul 1998), 3A1531
Imposing thermodynamic restrictions on the elastic constrant-fabric tensor relationship, J Biomech **31**(8) 759-762 (Aug 1998), 3T1532
Material characterization of human medial collateral ligament, J Biomech Eng **120**(6) 757-763 (Dec 1998), 3A1533
Porohyperelastic-transport-swelling theory, material properties and FE models for large arteries, Int J Solids Struct **35**(34-35) 5021-5031 (Dec 1998), 3A1534
Structural model of the forced compression of the fingertip pulp, J Biomech **31**(7) 639-646 (Jul 1998), 3A1535
Yield strain behavior of trabecular bone, J Biomech **31**(7) 601-608 (Jul 1998), 3A1536
Viscoelastic sphere model for the representation of plantar soft tissue during simulations, J Biomech **31**(9) 847-853 (Sep 1998), 4A10
Cumulative damage and the response of human bone in two-step loading fatigue, J Biomech **31**(9) 825-833 (Sep 1998), 4A771
Biomechanical properties of human os calcanei: Relationships with bone density and fractal evaluation of bone microarchitecture, J Biomech **31**(9) 817-824 (Sep 1998), 4A1545
Carnosine and taurine contents in individual fibers of human vastus lateralis muscle, J Sports Sci **16**(7) 639-643 (Oct 1998), 4T1559
Changes in the mechanical properties, biochemical contents and wall structure of the human coronary arteries with age and sex, Med Eng Phys **20**(7) 523-533 (Oct 1998), 4A1560
Complex and frequency-dependent compliance of viscoelastic windkessel resolves contradictions in elastic windkessels, Med Eng Phys **20**(7) 502-514 (Oct 1998), 4A1561
Material characterization of the brainstem from oscillatory shear tests, J Biomech **31**(9) 801-807 (Sep 1998), 4A1562
Mechanical properties of rabbit patellar tendon at high strain rate, Bio-Med Mat Eng **8**(2) 83-90 (1998), 4A1563
Theoretical modeling of arteriovenous malformation rupture risk: A feasibility and validation study, Med Eng Phys **20**(7) 489-501 (Oct 1998), 4A1564
Variation of arterial compliance within the cardiac pressure pulse, J Biomech **31**(9) 867-871 (Sep 1998), 4A1565
Viscoelastic characterization of mesenchymal gap tissue and consequences for tension accumulation during distraction, J Biomech Eng **121**(1) 116-123 (Feb 1999), 5A1556
Advances in Bioengineering - 1998 (ASME, New York, 1998) 6N39
Introduction to Biomedical Engineering (Academic Press, San Diego CA, 1999) 6N40
Age-dependent material properties of the porcine cerebrum: Effect on pediatric inertial head injury criteria, J Biomech **31**(12) 1119-1126 (Dec 1998), 6A1588
Comparison of porosity, fabric and fractal dimension as predictors of the Young's modulus of equine cancellous bone, Med Eng Phys **20**(8) 588-593 (Nov 1998), 6A1589
Conditional equivalence of chemical loading and mechanical loading on articular cartilage, J Biomech **31**(12) 1181-1185 (Dec 1998), 6A1590
Human vertebral body apparent and hard tissue stiffness, J Biomech **31**(11) 1009-1015 (Nov 1998), 6A1591
Hyaluronan, hydration and flow conductivity of rat dermis, Biorheol **35**(3) 211-219 (May-Jun 1998), 6A1592
Material and functional properties of articular cartilage and patellofemoral contact mechanics in an experimental model of osteoarthritis, J Biomech **31**(12) 1137-1145 (Dec 1998), 6A1593
Two-dimensional stress-relaxation behavior of human skin as influenced by non-enzymatic glycation and the inhibitory agent aminoguanidine, J Biomech **31**(11) 985-993 (Nov 1998), 6A1594
Shear stress in arterial stenoses: A momentum integral model, J Biomech **31**(11) 1051-1057 (Nov 1998), 6A1595
Probabilistic rule of mixtures for elastic moduli, J Biomech **32**(2) 189-193 (Feb 1999), 7A6
Failure model for ligaments, J Biomech **32**(2) 183-188 (Feb 1999), 7A1602
Alterations in the Young's modulus and volumetric properties of chondrocytes isolated from normal and osteoarthritic human cartilage, J Biomech **32**(2) 119-127 (Feb 1999), 7A1618
Why does intermittent hydrostatic pressure enhance the mineralization process in fetal cartilage, J Biomech **32**(2) 153-161 (Feb 1999), 7A1619
Force-displacement behavior of biological tissue during distraction osteogenesis, Med Eng Phys **20**(9) 708-715 (Nov-Dec 1998), 8A1581
Varying the mechanical properties of bone tissue by changing the amount of its structurally effective bone mineral content, Bio-Med Mat Eng **8**(5-6) 321-334 (1998), 8A1582
Correlation between hydroxyapatite osseointegration and Young's modulus, Med Eng Phys **20**(9) 697-701 (Nov-Dec 1998), 8A1611
Extraction of quasi-linear viscoelastic parameters for lower limb soft tissues from manual indentation experiment, J Biomech Eng **121**(3) 330-339 (Jun 1999), 9A1572
Proceedings of the 1999 Bioengineering Conference (ASME, New York, 1999) 10N36
Alterations in the biorheological features of some soft tissues after limb lengthening, Biorheol **35**(4-5) 355-363 (Jul-Oct 1998), 10A1616
Biomechanical properties of sterilized human auditory ossicles, J Biomech **32**(5) 485-491 (May 1999), 10A1617
Biphasic poroviscoelastic behavior of hydrated biological soft tissue, J Appl Mech **66**(2) 528-535 (Jun 1999), 10A1618
Composites theory predicts the dependence of stiffness of cartilage culture tissues on collagen volume fraction, J Biomech **32**(5) 503-509 (May 1999), 10A1619
Constitutive model of brain tissue suitable for FE analysis of surgical procedures, J Biomech **32**(5) 531-537 (May 1999), 10A1620
Plantar soft tissue thickness during ground contact in walking, J Biomech **32**(6) 623-628 (Jun 1999), 10A1621
Statistical characterization of piezoelectric coefficients d_{23} in cow bone, J Biomech **32**(6) 573-577 (Jun 1999), 10A1622
Influence of the non-Newtonian properties of blood on the flow in large arteries: Steady flow in a carotid bifurcation model, J Biomech **32**(6) 601-608 (Jun 1999), 10A1631
Deformation of a model endothelial cell in flow: A 2D numerical simulation, Appl Mech Eng **4**(S) 185-190 (1999), 11T1637
Influence of laminar shear stress on cytoskeleton and ICAM-1 expression of endothelial cells, Appl Mech Eng **4**(S) 151-156 (1999), 11T1638
Influence of the nonlinear properties of the venous vascular wall on the deformation of vasa-vasorum, Appl Mech Eng **4**(S) 145-150 (1999), 11T1639

Introduction to mecanobiology of cells, Appl Mech Eng **4**(S) 177-183 (1999), 11T1640
Rheodynamics factor in the thermoregulation model, Appl Mech Eng **4**(S) 169-176 (1999), 11T1641
Anisotropic mechanical properties of lamellar bone using miniature cantilever bending specimens, J Biomech **32**(7) 647-654 (Jul 1999), 12A1594
Role of an effective isotropic tissue modulus in the elastic properties of cancellous bone, J Biomech **32**(7) 673-680 (Jul 1999), 12A1612
Identification of retinal vessels by color image analysis, Machine Graphics & Vision **7**(4) 725-742 (1998), 12T1627
Intra-extrafibrillar mixture formulation of soft charged hydrated tissues, J Theor Appl Mech **37**(3) 518-536 (1999), 12A1628
Fiber-reinforced composite model of the viscoelastic behavior of the brainstem in shear, J Biomech **32**(8) 865-870 (Aug 1999), 12A1634

550F. Organs

Multiaxial constitutive law for mammalian left ventricular myocardium in steady-state barium contracture or tetanus, J Biomech Eng **120**(4) 504-517 (Aug 1998), 1A1504
Statistical approach for boundary extraction in echocardiographic images, Machine Graphics & Vision **7**(1-2) 169-178 (1998), 1T1505
Structural changes in rat aortic intima due to transmural pressure, J Biomech Eng **120**(4) 476-483 (Aug 1998), 1A1506
Dynamics of coronary artery curvature obtained from biplane cineangiograms, J Biomech **31**(5) 479-484 (May 1998), 2A1543
Post-buckling behavior of the pressurized abdominal cavity during knees-bend lifts, Proc Inst Mech Eng H **212**(H4) 253-263 (1998), 2A1544
Selected Works on Biomechanics and Aeroelasticity (World Sci Pub, River Edge, NJ, 1997) 3R31
Effect of tear depth on the propagation of aortic dissections in isolated porcine thoracic aorta, J Biomech **31**(7) 673-676 (Jul 1998), 3A1537
Elastic response of human iliac arteries *in-vitro* to balloon angioplasty using high-resolution CT, J Biomech **31**(8) 747-751 (Aug 1998), 3A1538
Left ventricular geometric remodeling and residual stress in the rat heart, J Biomech Eng **120**(6) 715-719 (Dec 1998), 3A1539
Non-invasive estimation of human left ventricular end-diastolic pressure, Med Eng Phys **20**(6) 485-488 (Sep 1998), 3T1540
Residual strain in ischemic ventricular myocardium, J Biomech Eng **120**(6) 710-714 (Dec 1998), 3A1541
Variability of the planarity of the human aortic bifurcation, Med Eng Phys **20**(6) 469-472 (Sep 1998), 3A1542
Material characterization of the brainstem from oscillatory shear tests, J Biomech **31**(9) 801-807 (Sep 1998), 4A1562
Shear stress in arterial stenoses: A momentum integral model, J Biomech **31**(11) 1051-1057 (Nov 1998), 6A1595
Heart rate and blood lactate responses during competitive Olympic boardsailing, J Sports Sci **17**(2) 135-141 (Feb 1999), 7A1620
Intramural mechanics of the human tongue in association with physiological deformations, J Biomech **32**(1) 1-12 (Jan 1999), 7A1621
Effects of wave reflection timing on left ventricular mechanics, J Biomech **32**(3) 249-254 (Mar 1999), 8A1583
Evaluation of pseudoelastic descriptors used in arterial mechanics, J Biomech Eng **121**(2) 259-262 (Apr 1999), 8A1588
Material characterization of the pig kidney in relation with the biomechanical analysis of renal trauma, J Biomech **32**(4) 417-425 (Apr 1999), 9A1573
Online analysis of middle latency auditory evoked potentials for monitoring depth of anaesthesia in laboratory rats, Med Eng Phys **20**(10) 722-728 (Dec 1998), 9A1574
Self-localization for an electric wheelchair, JSME Int J Ser C **40**(3) 433-438 (Sep 1997), 9A1575
Ventricular late potential analysis with musical and harmonic wavelets, Med Eng Phys **20**(10) 773-779 (Dec 1998), 9A1576
Investigation of unsteady flow in a model of a ventricular assist device by numerical modeling and comparison with experiment, Med Eng Phys **21**(1) 53-64 (Jan 1999), 9A1587
Intra and Extracorporeal Cardiovascular Fluid Dynamics: Volume 1, General Principles in Application (Comput Mech, Billerica MA, 1998) 10N35
Proceedings of the 1999 Bioengineering Conference (ASME, New York, 1999) 10N36
Biomathematical model for pressure-dependent lamina cribrosa behavior, J Biomech **32**(6) 579-584 (Jun 1999), 10A1623
Finite strain elastodynamics of intracranial saccular aneurysms, J Biomech **32**(6) 593-599 (Jun 1999), 10A1635
Effects of cross-fiber deformation on axial fiber stress in myocardium, J Biomech Eng **121**(4) 376-385 (Aug 1999), 11A1642
Quasi-linear viscoelastic theory applied to internal shearing of porcine aortic valve leaflets, J Biomech Eng **121**(4) 386-392 (Aug 1999), 11A1643
Interactive graphical system for segmentation of multimodal medical volumes using fuzzy clustering, Machine Graphics & Vision **7**(4) 781-791 (1998), 12A371
Automatic morphometric analysis of neutral cells, Machine Graphics & Vision **7**(4) 693-709 (1998), 12T1629
Fast 2D vector field visualization using a 2D texture synthesis based on an autoregressive filter: Application to cardiac imaging, Machine Graphics & Vision **7**(4) 751-764 (1998), 12A1630
Nonlinear dynamic respiratory modeling with application to intensive care medicine, Nonlinear Anal **38**(1) 41-58 (Oct 1999), 12T1633

550G. Microbiomechanics

Intracellular calcium dynamics during photolysis, J Biomech Eng **120**(5) 570-578 (Oct 1998), 1A1507
Role of cytoskeleton and deformability in laminin-mediated cell rolling, Biorheol **35**(1) 37-51 (Jan-Feb 1998), 2A1545
Towards an advanced statistical theory of biochemical processes, Acta Phys Polonica B **B29**(6) (Jun 1998), 2T1546
Tensegrity model of the cytoskeleton in spread and round cells, J Biomech Eng **120**(6) 770-777 (Dec 1998), 3A1543
Theoretical and experimental study of intermittent blood flows in microcirculation: Application to the in-vivo determination of compliance, J Biomech Eng **120**(6) 737-742 (Dec 1998), 3A1544
Electrostatic repulsion among erythrocytes in tube flow, demonstrated by the thickness of marginal cell-free layer, Biorheol **35**(2) 155-170 (Mar-Apr 1998), 4A1566
Filterability of leukocytes in undiluted blood, Biorheol **35**(2) 119-130 (Mar-Apr 1998), 4A1567
Molding of deep polydimethylsiloxane microstructures for microfluidics and biological applications, J Biomech Eng **121**(1) 28-34 (Feb 1999), 5A409
Effects of the surface topography of micromachined titanium substrata on cell behavior *in vitro* and *in vivo*, J Biomech Eng **121**(1) 49-57 (Feb 1999), 5A1557
Electrical, chemical, and topological addressing of mammalian cells with microfabricated systems, J Biomech Eng **121**(1) 65-72 (Feb 1999), 5A1558
Microcontact printing for precise control of nerve cell growth in culture, J Biomech Eng **121**(1) 73-78 (Feb 1999), 5A1559
Numerical model of fluid flow and oxygen transport in a radial-flow microchannel containing hepatocytes, J Biomech Eng **121**(1) 58-64 (Feb 1999), 5A1560
Surfaces designed to control the projected area and shape of individual cells, J Biomech Eng **121**(1) 40-48 (Feb 1999), 5A1561
Tissue-like culture system using microstructures: Influence of extracellular matrix material on cell adhesion and aggregation, J Biomech Eng **121**(1) 35-39 (Feb 1999), 5A1562
Microfabricated modules for sample handling, sample concentration and flow mixing: Application to protein analysis by tandem mass spectrometry, J Biomech Eng **121**(1) 7-12 (Feb 1999), 5A1568
Contoured elastic-membrance microvalves for microfluidic network integration, J Biomech Eng **121**(1) 2-6 (Feb 1999), 5A1574
Differential effect of steady versus oscillating flow on bone cells, J Biomech **31**(11) 969-976 (Nov 1998), 6A1596
Development and validation of a nanometer manipulation and measurement system for biomechanical testing of single macro-molecules, J Biomech **31**(11) 1075-1079 (Nov 1998), 6A1604
Silicon-processed microneedles, J Microelectromechanical Syst **8**(1) 78-84 (Mar 1999), 8A727
Finite element analysis of the lift on a slightly deformable and freely rotating and translating cylinder in 2D channel flow, J Biomech Eng **121**(2) 148-152 (Apr 1999), 8A1023
Osteogenesis mechanism based on kinetic theory, Bio-Med Mat Eng **8**(5-6) 253-257 (1998), 8T1584
Standardization of a method for characterizing low-concentration biogels: Elastic properties of low-concentration agarose gels, J Biomech Eng **121**(2) 184-187 (Apr 1999), 8A1602
Elastic properties of trabecular and cortical bone tissues are similar: Results from two microscopic measurement techniques, J Biomech **32**(4) 437-441 (Apr 1999), 9A1577
New mechanical stimulator for cultured bone cells using piezoelectric actuator, J Biomech **32**(4) 427-430 (Apr 1999), 9A1578
Acoustic properties of biological suspensions with nonspherical suspended droplets, Arch Acoust **23**(3) 403-410 (1998), 10A1624
Bioelectrorheological model of the cell 8: Cellular deformation under prolonged and recurrent shear stress, Biorheol **35**(4-5) 311-324 (Jul-Oct 1998), 10A1625
Complex viscoelasticity of normal and lectin treated erythrocytes using laser diffractometry, Biorheol **35**(4-5) 325-334 (Jul-Oct 1998), 10A1626
Modeling of location- and time-dependent deformation of chondrocytes during cartilage loading, J Biomech **32**(6) 563-572 (Jun 1999), 10A1627
Shear stress gradient over endothelial cells in a curved microchannel system, Biorheol **35**(4-5) 245-261 (Jul-Oct 1998), 10A1628
Swimming of spermatozoa in a linear viscoelastic fluid, Biorheol **35**(4-5) 295-309 (Jul-Oct 1998), 10A1629
Microdamage accumulation in the cement layer of hip replacements under flexural loading, J Biomech **32**(5) 467-475 (May 1999), 10A1643
Fluid pressure relaxation depends upon osteonal microstructure: Modeling an oscillatory bending experiment, J Biomech **32**(7) 663-672 (Jul 1999), 12A1602

550H. Transport phenomena (diffusion)

Effect of dimethylsulfoxide on the water transport response of rat hepatocytes during freezing, J Biomech Eng **120**(5) 549-558 (Oct 1998), 1A1508
Effect of intraluminal thrombus thickness and bulge diameter on the oxygen diffusion in abdominal aortic aneurysm, J Biomech Eng **120**(5) 579-583 (Oct 1998), 1A1509
Measurement of water transport during freezing in mammalian liver tissue - Part II: The use of differential scanning calorimetry, J Biomech Eng **120**(5) 559-569 (Oct 1998), 1A1510
Surfactant-spreading and surface-compression disturbance on a thin viscous film, J Biomech Eng **121**(1) 89-98 (Feb 1999), 5A1564
Advances in Heat and Mass Transfer in Biotechnology - 1998 (ASME, New York, 1998) 7N37
Mass transport in solid tumors - I: Fluid dynamics, Appl Math Mech **19**(11) 1025-1032 (Nov 1998), 7A1622
Mass transport in solid tumors - II: Drug delivery, Appl Math Mech **19**(12) 1151-1160 (Dec 1998), 8A1403

550I. Fluid mechanics of circulatory systems and other body fluids

Structural changes in rat aortic intima due to transmural pressure, J Biomech Eng **120**(4) 476-483 (Aug 1998), 1A1506
Effect of intraluminal thrombus thickness and bulge diameter on the oxygen diffusion in abdominal aortic aneurysm, J Biomech Eng **120**(5) 579-583 (Oct 1998), 1A1509
Analytical estimate of the flow-field in a porous stenotic artery subject to body acceleration, Int J Eng Sci **36**(10) 1083-1102 (Aug 1998), 1A1511
Asymptotic model of viscous flow limitation in a highly collapsed channel, J Biomech Eng **120**(4) 544-546 (Aug 1998), 1A1512
Experimental investigation of oscillatory flow through a symmetrically bifurcating tube, J Biomech Eng **120**(5) 584-593 (Oct 1998), 1A1513
Experiments on steady and oscillatory flows at moderate Reynolds numbers in a quasi-2D channel with a throat, J Biomech Eng **120**(5) 594-601 (Oct 1998), 1A1514
Factor Xa generation at the surface of cultured rat vascular smooth muscle cells in an *in vitro* flow system, J Biomech Eng **120**(4) 484-490 (Aug 1998), 1A1515
Pendelluft flow in symmetric airway bifurcations, J Biomech Eng **120**(4) 463-467 (Aug 1998), 1A1516
Simulation of particle-hemodynamics in a partially occluded artery segment with implications to the initiation of microemboli and secondary stenoses, J Biomech Eng **120**(4) 446-454 (Aug 1998), 1A1517
Simulation of pressure drop and energy dissipation for blood flow in a human fetal bifurcation, J Biomech Eng **120**(4) 455-462 (Aug 1998), 1A1518
Numerical analysis for stability and self-excited oscillation in collapsible tube flow, J Biomech Eng **120**(4) 468-475 (Aug 1998), 1A1525
Analysis of 3D transient blood flow passing through an artificial aortic valve by Lattice-Boltzmann methods, J Biomech **31**(5) 453-462 (May 1998), 2A1547
Effect of nonaxisymmetric bematocrit distribution on non-Newtonian blood flow in small tubes, Biorheol **35**(1) 69-87 (Jan-Feb 1998), 2A1548
Intraventricular pressure drop and aortic blood acceleration as indices of cardiac inotropy: A comparison with the first derivative of aortic pressure based on computer fluid dynamic, Med Eng Phys **20**(4) 231-241 (Jun 1998), 2A1549
Kinetics of thrombin- and SFLLRN-induced aggregation of human platelets in flow through tubes, Biorheol **35**(1) 53-68 (Jan-Feb 1998), 2T1550
Numerical analysis of fluid-solid interactions for blood flow in arterial structures - Part 1: A review of models for arterial wall behavior, Proc Inst Mech Eng H **212**(H4) 229-240 (1998), 2A1551
Numerical analysis of fluid-solid interactions for blood flow in arterial structures - Part 2: Development of coupled fluid-solid algorithms, Proc Inst Mech Eng H **212**(H4) 241-252 (1998), 2A1552
Steady flow dynamics of prosthetic aortic heart valves: A comparative evaluation with PIV techniques, J Biomech **31**(5) 411-421 (May 1998), 2A1553
Solitary waves in a thick walled elastic tube, Appl Math Model **22**(8) 583-599 (Aug 1998), 3A263
Estimates of the peak pressures in bone pore water, J Biomech Eng **120**(6) 697-703 (Dec 1998), 3A1545
Flow waveform effects on end-to-side anastomotic flow patterns, J Biomech **31**(7) 609-617 (Jul 1998), 3A1546
Mechanistic model of plasma filtration, Med Eng Phys **20**(5) 383-392 (Jul 1998), 3A1547
Phase analysis in high-frequency oscillation, Med Eng Phys **20**(6) 452-457 (Sep 1998), 3A1548
Problem of regulation of the cardiovascular system as a bilinear control problem, Math Methods Appl Sci **21**(14) 1365-1377 (Sep 1998), 3A1549
Thermographic imaging in the beating heart: A method for coronary flow estimation based on a heat transfer model, Med Eng Phys **20**(6) 443-451 (Sep 1998), 3A1564
Finite element study of the blood flow in total cavopulmonary connection, Comput Fluids **28**(1) 19-39 (Jan 1999), 4A28
Bacterial bioconvection: Weakly nonlinear theory for pattern selection, J Fluid Mech **370** 249-270 (Sep 1998), 4A1568
Correction to flow rate - pressure drop relation in coronary angioplasty: Steady streaming effect, J Biomech **31**(9) 781-791 (Sep 1998), 4A1569
Fiber matrix model for interstitial fluid flow and permeability in ligaments and tendons, Biorheol **35**(2) 103-118 (Mar-Apr 1998), 4A1570
Nonlinear analysis of a pulse-duplicator flow device (Spanish), J Brazilian Soc Mech Sci **20**(3) 325-339 (Sep 1998), 4A1571
Unsteady blood flow in a helically symmetric pipe, J Fluid Mech **370** 321-345 (Sep 1998), 4A1572
Principles of urodynamics pressure measurement and its implication to female continence function, J Biomech **31**(9) 861-865 (Sep 1998), 4A1579
Assessment of the lactate and ventilatory thresholds by breathing frequency in runners, J Sports Sci **16**(7) 667-675 (Oct 1998), 4T1587
Influence of cardiovascular dynamic coupling on the blood pulse wave propagation in human body, Appl Math Mech **19**(7) 601-614 (Jul 1998), 5A1563
Surfactant-spreading and surface-compression disturbance on a thin viscous film, J Biomech Eng **121**(1) 89-98 (Feb 1999), 5A1564
Visualization of the hinge flow in a 5:1 scaled model of the medtronic parallel bileaflet heart valve prosthesis, Exp Fluids **25**(5-6) 512-518 (Oct 1998), 5A1565
Advances in Bioengineering - 1998 (ASME, New York, 1998) 6N39
Analysis of the steady flow in an irrectangular parallel-plate flow chamber, Appl Math Mech **19**(9) 851-859 (Sep 1998), 6A1251
Differential effect of steady versus oscillating flow on bone cells, J Biomech **31**(11) 969-976 (Nov 1998), 6A1596
Air-liquid interfacial movement in models simulating airway reopening, Med Eng Phys **20**(8) 558-564 (Nov 1998), 6A1597
Mathematical model of air dust depositing within the human respiratory system (Chinese), J Huazhong Univ Sci Tech **26**(10) 76-78 (Oct 1998), 6A1598
Numerical study on the effect of steady axial flow development in the human aorta on local shear stresses in abdominal aortic branches, J Biomech **31**(11) 995-1007 (Nov 1998), 6A1599
Pulmonary artery hemodynamics with varying degrees of valvular stenosis: An in vitro study, J Biomech **31**(12) 1153-1161 (Dec 1998), 6A1600
Effect of biofilms on turbulent boundary layers, J Fluids Eng **121**(1) 44-51 (Mar 1999), 7A1042
Flow in a catherized curved artery with stenosis, J Biomech **32**(1) 49-61 (Jan 1999), 7A1623
Shear stresses and turbulent eddies: The causes of mechanical hemolysis in a centrifugal blood pump (Spanish), J Brazilian Soc Mech Sci **20**(4) 542-552 (Dec 1998), 7A1624
Combination of magnetic resonance angiography and computational fluid dynamics: A critical review, Critical Rev Biomed Eng **26**(4) 227-274 (1998), 8A1585
Computer aided design and fabrication of models for *in vitro* studies of vascular fluid dynamics, Proc Inst Mech Eng H **213**(H1) 1-4 (1999), 8A1586
Confocal imaging of flows in artificial venular bifurcations, J Biomech Eng **121**(2) 170-177 (Apr 1999), 8A1587
Evaluation of pseudoelastic descriptors used in arterial mechanics, J Biomech Eng **121**(2) 259-262 (Apr 1999), 8A1588
One-dimensional unsteady separable and reattachable flow model for collapsible tube-flow analysis, J Biomech Eng **121**(2) 153-159 (Apr 1999), 8A1589

Simulation of endothelial cell behavior of 2D steady flow on wavy surface (Chinese), J Xi'an Jiaotong Univ **33**(2) 59-63 (1999), 8A1590
Artificial urethral valve using SMA actuators (verification of opening-closing functions and thermo-metallurgical-mechanical model of SMA actuators), Int J Appl Electromagnetics Mech **10**(1) 45-62 (Feb 1999), 9A1579
Catheter obstruction effect on pulsatile flow rate-pressure drop during coronary angioplasty, J Biomech Eng **121**(3) 281-289 (Jun 1999), 9A1580
Numerical study of blood flow patterns in anatomically realistic and simplified end-to-side anastomoses, J Biomech Eng **121**(3) 265-272 (Jun 1999), 9A1581
Regularization of blood motion fields by modified Navier-Stokes equations, Med Eng Phys **21**(1) 27-36 (Jan 1999), 9A1582
Swimming using internally generated traveling waves, Phys Fluids **11**(5) 1275-1277 (May 1999), 9A1583
Biologically-inspired bodies under surface waves - Part 1: Load measurements, J Fluids Eng **121**(2) 469-478 (Jun 1999), 9A1585
Biologically-inspired bodies under surface waves - Part 2: Theoretical control of maneuvering, J Fluids Eng **121**(2) 479-487 (Jun 1999), 9A1586
Intra and Extracorporeal Cardiovascular Fluid Dynamics: Volume 1, General Principles in Application (Comput Mech, Billerica MA, 1998) 10N35
Proceedings of the 1999 Bioengineering Conference (ASME, New York, 1999) 10N36
Blood low shear rate rheometry: Influence of fibrinogen level and hematocrit on slip and migrational effects, Biorheol **35**(4-5) 335-353 (Jul-Oct 1998), 10A1630
Influence of the non-Newtonian properties of blood on the flow in large arteries: Steady flow in a carotid bifurcation model, J Biomech **32**(6) 601-608 (Jun 1999), 10A1631
Low Reynolds number turbulence modeling of blood flow in arterial stenoses, Biorheol **35**(4-5) 281-294 (Jul-Oct 1998), 10A1632
Oscillatory flow in a tube of time-dependent curvature - Part I: Perturbation to flow in a stationary curved tube, J Fluid Mech **383** 327-352 (Mar 1999), 10A1633
Wall shear stress in backward-facing step flow of a red blood cell suspension, Biorheol **35**(4-5) 263-279 (Jul-Oct 1998), 10A1634
Flow through a charged biopolymer layer, J Fluid Mech **383** 353-378 (Mar 1999), 10A1637
Fluid Dynamics and Biological Flows (VKI Fluid Dyn, Rhode-St-Genese, Belgium, 1998) 11N33
Fluid-structure interaction FE analysis of pulsatile blood flow through a compliant stenotic artery, J Biomech Eng **121**(4) 361-369 (Aug 1999), 11A1644
Free radicals activity and blood rheology, Appl Mech Eng **4**(S) 163-167 (1999), 11T1645
Velocity and wall shear stress patterns in the human right coronary artery, J Biomech Eng **121**(4) 370-375 (Aug 1999), 11A1646
Fluid pressure relaxation depends upon osteonal microstructure: Modeling an oscillatory bending experiment, J Biomech **32**(7) 663-672 (Jul 1999), 12A1602
Characterization of vortex shedding in vascular anastomoses models using pulsed doppler ultrasound, J Biomech **32**(7) 639-645 (Jul 1999), 12A1631
Influence of the non-Newtonian properties of blood on the flow in large arteries: Unsteady flow in a 90° curved tube, J Biomech **32**(7) 705-713 (Jul 1999), 12A1632
Nonlinear dynamic respiratory modeling with application to intensive care medicine, Nonlinear Anal **38**(1) 41-58 (Oct 1999), 12T1633

550J. Brain and spinal trauma

System for 3D localization of malformations in the human brain, Machine Graphics & Vision 7(1-2) 159-167 (1998), 1T1519
Finite strain elastodynamics of intracranial saccular aneurysms, J Biomech **32**(6) 593-599 (Jun 1999), 10A1635
Fiber-reinforced composite model of the viscoelastic behavior of the brainstem in shear, J Biomech **32**(8) 865-870 (Aug 1999), 12A1634

550K. Shock and vibration effects

Effects of prototype helicopter seat cushion concepts on human body vibration response, J Low Frequency Noise Vib **17**(1) 43-53 (1998), 1A1520
International conference on whole-body vibration injuries: Held at the University of Southampton, September 15-17, 1997, J Sound Vib **215**(4) 595-996 (Aug 1998), 2A1554
Effect of viscoelastic brain on the dynamic characteristics of the human skull-brain system, Acta Mech **130**(3-4) 159-173 (1998), 3A1550
Frequency spectrum of the bispherical hollow system: The case of the nonuniform thickness human skull, Acta Mech **130**(3-4) 249-278 (1998), 3A1551
Crashworthiness, Occupant Protection and Biomechanics in Transportation Systems - 1998 (ASME, New York, 1998) 6N20
Advances in Bioengineering - 1998 (ASME, New York, 1998) 6N39
Case report: Is low-frequency noise from refrigerators in a multi-family house a cause of diffuse disorders, J Low Frequency Noise Vib **17**(2) 65-70 (1998), 6T1601
Muscular response to sudden load: A tool to evaluate fatigue, J Low Frequency Noise Vib **17**(2) 117-118 (1998), 6T1602
Development and validation of a human head mechanical model (French), Comptes Rendus L'Acad Sci Serie II **327**(1) 125-131 (Jan 1999), 9A1584
Concept of noise annoyance: How international experts see it, J Sound Vib **223**(4) 513-527 (Jun 1999), 12A1635
Hand-arm vibration syndrome from exposure to pneumatic knives, J Low Frequency Noise Vib **18**(1) 1-7 (1999), 12A1636
Study of effects of whole-body vibration on visual acuity, J Low Frequency Noise Vib **18**(1) 13-19 (1999), 12T1637

550L. Heat transfer aspects

Numerical modeling of bio-heat transfer using the BEM, J Theor Appl Mech **36**(2) 437-455 (1998), 2A1555
Simulation of the thermal wave propagation in biological tissues by the dual reciprocity BEM, Eng Anal Boundary Elements **22**(3) 167-174 (Oct 1998), 4A1573
Investigation on temperature evolution in tumor hyperthermia under intervenient thermal probe heating (Chinese), J Tsinghua Univ Sci Tech **38**(7) 86-89 (Jul 1998), 6A1603
Annual Review of Heat Transfer, Volume IX (Begell House, New York, 1998) 12N32

550M. Biopropulsion

Numerical study of insect flight, J Comput Phys **146**(1) 124-156 (Oct 1998), 3A1552
Swimming using internally generated traveling waves, Phys Fluids **11**(5) 1275-1277 (May 1999), 9A1583
Biologically-inspired bodies under surface waves - Part 1: Load measurements, J Fluids Eng **121**(2) 469-478 (Jun 1999), 9A1585
Biologically-inspired bodies under surface waves - Part 2: Theoretical control of maneuvering, J Fluids Eng **121**(2) 479-487 (Jun 1999), 9A1586
Nanoscale design of snake skin for reptation locomotions via friction anisotropy, J Biomech **32**(5) 477-484 (May 1999), 10A1636

550P. Biomaterials

Thermal oxidation treatments in the development of new coasted biomaterials: Application to the MA 956 superalloy, Mat Manuf Processes **13**(3) 431-443 (1998), 1T1521
Advances in Bioengineering - 1998 (ASME, New York, 1998) 6N39
Introduction to Biomedical Engineering (Academic Press, San Diego CA, 1999) 6N40
Fatigue of cemented hip replacements under torsional loads, Fatigue Fracture Eng Mat Struct **22**(1) 33-40 (1999), 10A843
Flow through a charged biopolymer layer, J Fluid Mech **383** 353-378 (Mar 1999), 10A1637
Computer tomography and its role in study of the morphometric and energy characteristics of biocomposites of natural origin: Review, Composite Mech Des **3**(2) 93-98 (1997), 11A1647
Preliminary study on composite hip prostheses made by resin transfer molding, J Composite Mat **33**(9) 852-870 (1999), 12A748
Laboratory analysis of superelastic NiTi compression springs, Med Eng Phys **21**(2) 119-125 (Mar 1999), 12A1638

550Y. Computational techniques

Opening mechanics of the aortic root: Non homogeneous and non isotropic FEM model of biological structure, Mech Res Commun **25**(4) 405-413 (Jul-Aug 1998), 1T1490
Analytical method for the determination of along-fiber to cross-fiber elastic modulus ratio in ventricular myocardium: A feasibility study, Med Eng Phys **20**(2) 103-108 (Mar 1998), 1A1497
Simulation of pressure drop and energy dissipation for blood flow in a human fetal bifurcation, J Biomech Eng **120**(4) 455-462 (Aug 1998), 1A1518
Algorithm for detecting the onset of muscle contraction by EMG signal processing, Med Eng Phys **20**(3) 211-215 (Apr 1998), 1A1522
Computer simulation of the measured respiratory impedance in newborn infants and the effect of the measurement equipment, Med Eng Phys **20**(3) 220-228 (Apr 1998), 1A1523
General computing method for spatial cartilage thickness from co-planar MRI, Med Eng Phys **20**(3) 169-176 (Apr 1998), 1A1524
Numerical analysis for stability and self-excited oscillation in collapsible tube flow, J Biomech Eng **120**(4) 468-475 (Aug 1998), 1A1525
Numerical study of insect flight, J Comput Phys **146**(1) 124-156 (Oct 1998), 3A1552
Finite element study of the blood flow in total cavopulmonary connection, Comput Fluids **28**(1) 19-39 (Jan 1999), 4A28
Comparison of geometry-based and CT voxel-based FE modeling and experimental validation, Med Eng Phys **20**(7) 515-522 (Oct 1998), 4A1574
Tissue stresses and strain in trabeculae of a canine proximal femur can be quantified from computer reconstructions, J Biomech **32**(2) 165-173 (Feb 1999), 7A1606
Dynamic lumped element response of the human fingerpad, J Biomech Eng **121**(2) 178-183 (Apr 1999), 8A1577
Analysis of titanium induced CT artifacts in the development of biomechanical FE models, Med Eng Phys **20**(9) 653-659 (Nov-Dec 1998), 8A1591
Discrete wavelet transform: A tool in smoothing kinematic data, J Biomech **32**(3) 317-321 (Mar 1999), 8A1592
Evaluation of temperature distribution during hyperthermic treatment in biliary tumors: A computational approach, J Biomech Eng **121**(2) 141-147 (Apr 1999), 8A1593
Fundamentals of power spectra of extracellular potentials produced by a skeletal muscle fiber of finite length - Part II: Effect of parameters altering with functional state, Med Eng Phys **20**(9) 702-707 (Nov-Dec 1998), 8A1594
Numerical study of magnetic resonance images of pulsatile flow in a 2D carotid bifurcation: A numerical study of MR images, Med Eng Phys **20**(9) 643-652 (Nov-Dec 1998), 8A1595
Qualitative analysis of controlled drug resistance model: Inverse Laplace and semigroup approach, Control and Cybernetics **28**(1) 67-73 (1999), 9T394
Investigation of unsteady flow in a model of a ventricular assist device by numerical modeling and comparison with experiment, Med Eng Phys **21**(1) 53-64 (Jan 1999), 9A1587
Method of linear transformation in revealing EEG polyharmonic components in comparison to the Fourier analysis, Med Eng Phys **21**(1) 9-14 (Jan 1999), 9A1588
Computational molecular biophysics today: A confluence of methodological advances and complex biomolecular applications, J Comput Phys **151**(1) 1-8 (May 1999), 10A1638
Efficient algorithm to estimate material parameters of biphasic mixtures, Int J Numer Methods Eng **45**(9) 1315-1331 (Jul 1999), 12A858
Computer evaluation of left ventricular wall motion by means of shape-based tracking and symbolic description, Med Eng Phys **21**(2) 73-85 (Mar 1999), 12A1639
Estimating wound volumes from scanner data, Machine Graphics & Vision 7(4) 879-889 (1998), 12T1640
Fractal palettes for medical imaging, Machine Graphics & Vision 7(4) 743-750 (1998), 12T1641
Linear and incremental estimation of elastic deformations in medical registration using prescribed displacements, Machine Graphics & Vision 7(4) 807-829 (1998), 12A1642
New approach to hidden-surface elimination of 3D medical images, Machine Graphics & Vision 7(4) 831-840 (1998), 12T1643
PCRT3D: An interactive 3D radiation treatment planning system based on volume rendering for low-end platforms, Machine Graphics & Vision 7(4) 859-878 (1998), 12T1644
Three-dimensional computational reconstruction of mixed anatomical tissues following histological preparation, Med Eng Phys **21**(2) 111-117 (Mar 1999), 12A1645
Weight factors in the nonlinear objective functions used for solving indeterminate problems in biomechanics, J Biomech **32**(7) 689-694 (Jul 1999), 12A1646

550Z. Experimental techniques

Strain distribution in the ligament using photoelasticity: A direct application to the human ACL, Med Eng Phys **20**(3) 161-168 (Apr 1998), 1A928
Effects of inserting a pressensor film into articular joints on the actual contact mechanics, J Biomech Eng **120**(5) 655-659 (Oct 1998), 1A1484
Experiments on steady and oscillatory flows at moderate Reynolds numbers in a quasi-2D channel with a throat, J Biomech Eng **120**(5) 594-601 (Oct 1998), 1A1514
Computer simulation of the measured respiratory impedance in newborn infants and the effect of the measurement equipment, Med Eng Phys **20**(3) 220-228 (Apr 1998), 1A1523
Broadband ultrasound attenuation in the os calces and its dependence on the receiver aperture size, Med Eng Phys **20**(2) 132-138 (Mar 1998), 1A1526
Computer simulation of the effect of changing abdominal thickness on the electrogastrogram, Med Eng Phys **20**(3) 177-181 (Apr 1998), 1A1527
Drilling of bone: A robust automatic method for the detection of drill bit break-through, Proc Inst Mech Eng H **212**(H3) 209-221 (1998), 1A1528
Intervertebral measurement of lumbar segmental motion with a new measuring device, Med Eng Phys **20**(2) 139-148 (Mar 1998), 1A1529
Measuring collagen fiber orientation: A 2D quantitative macroscopic technique, J Biomech Eng **120**(4) 537-540 (Aug 1998), 1A1530
Method for micro-displacement measurement to improve the space resolution of array detector, Med Eng Phys **20**(2) 149-151 (Mar 1998), 1A1531
New method for accurate measurement of displacement of the knee menisci, Proc Inst Mech Eng H **212**(H3) 183-188 (1998), 1A1532
Photo-pachometer: An instrument for the objective non-contact corneal thickness measurement, Med Eng Phys **20**(2) 109-113 (Mar 1998), 1A1533
Quantification of holographic fringe data: Comparison of intact and implanted femurs, Med Eng Phys **20**(2) 114-123 (Mar 1998), 1A1534
Proceedings of an International Conference on heart rate monitoring and exercise, December 6, 1997, Cape Town, S Africa, J Sports Sci **16**(S) 3-110 (1998), 1T1550
Dynamics of coronary artery curvature obtained from biplane cineangiograms, J Biomech **31**(5) 479-484 (May 1998), 2A1543
Estimation of acetabular cup wear volume from 2D measurements: A comprehensive analysis, Proc Inst Mech Eng H **212**(H4) 281-291 (1998), 2A1556
Fast and accurate automated measurements in digitized sterophotogrammetric radiographs, J Biomech **31**(5) 491-498 (May 1998), 2A1557
Fast responding combined direct and indirect calorimeter for human subjects, Med Eng Phys **20**(4) 291-301 (Jun 1998), 2A1558
New method to measure elastic properties of plastic-viscoelastic connective tissue, Med Eng Phys **20**(4) 308-314 (Jun 1998), 2A1559
Rapid response microviscosimeter, Biorheol **35**(1) 89-102 (Jan-Feb 1998), 2A1560
Simple and inexpensive multichannel potentiometric blood analyzer for single and nonroutine measurements of electrolyte concentrations, Lab Robotics Autom **10**(4) 205-213 (1998), 2A1561
Study of human bones by 2D and 3D photoelasticity, Sci Eng J (Ciencia Eng) **7**(1) 5-10 (Jan-Jun 1998), 2A1562
Thermal stresses from large volumetric expansion during freezing of biomaterials, J Biomech Eng **120**(6) 720-726 (Dec 1998), 3A1334
Elastic response of human iliac arteries *in-vitro* to balloon angioplasty using high-resolution CT, J Biomech **31**(8) 747-751 (Aug 1998), 3A1538
Non-invasive estimation of human left ventricular end-diastolic pressure, Med Eng Phys **20**(6) 485-488 (Sep 1998), 3T1540
Acoustic analysis of newborn infant cry signals, Med Eng Phys **20**(6) 432-442 (Sep 1998), 3A1553
Development of wall surface tangent DPIV measurement techniques for arterial branch models, J Biomech Eng **120**(6) 784-787 (Dec 1998), 3A1554
Evalution of dual-tip micromanometers during 21-day implantation in goats, Med Eng Phys **20**(6) 410-417 (Sep 1998), 3A1555
High-accuracy 3D coordinate digitizing system for reconstructing the geometry of diarthrodial joints, J Biomech **31**(6) 571-577 (Jun 1998), 3A1556
Influence of sensor size on the accuracy of in-vivo ligament and tendon force measurements, J Biomech Eng **120**(6) 764-769 (Dec 1998), 3A1557
MAVIS: A non-invasive instrument to measure area and volume of wounds, Med Eng Phys **20**(5) 332-338 (Jul 1998), 3A1558
Measurement of lumbar spinal flexion-extension kinematics from lateral radiographs: Simulation of the effects of out-of-plane movement and errors in reference point placement, Med Eng Phys **20**(6) 403-409 (Sep 1998), 3A1559
Multiple correspondence analysis of biomechanical signals characterized through fuzzy histograms, J Biomech **31**(7) 663-666 (Jul 1998), 3A1560
New dynamic renal phantom and its application to scintigraphic studies for pixel basis functional radionuclide imaging, Med Eng Phys **20**(6) 473-479 (Sep 1998), 3A1561
Representative assessment of long bone shaft biomechanical properties: An optimized testing method, J Biomech **31**(8) 741-745 (Aug 1998), 3A1562
Sensitivity of microwave radiometer for tissue screening, Proc Estonian Acad Sci Eng **4**(3) 165-177 (Sep 1998), 3A1563
Thermographic imaging in the beating heart: A method for coronary flow estimation based on a heat transfer model, Med Eng Phys **20**(6) 443-451 (Sep 1998), 3A1564

Transducers for dynamic measurement of spine neural-space occlusions, J Biomech Eng **120**(6) 787-791 (Dec 1998), 3A1565
Knee joint motion: Description and measurement, Proc Inst Mech Eng H **212**(H5) 357-372 (1998), 4A1555
Variation of arterial compliance within the cardiac pressure pulse, J Biomech **31**(9) 867-871 (Sep 1998), 4A1565
Accuracy of an electromagnetic measurement device and application to the measurement and description of knee joint motion, Proc Inst Mech Eng H **212**(H5) 347-355 (1998), 4A1575
Method and device for measuring force transfers between the deep flexors in the musician's hand, J Biomech **31**(9) 773-779 (Sep 1998), 4A1576
Method to increase the sensitive range of pressure sensitive film, J Biomech **31**(9) 855-859 (Sep 1998), 4A1577
Portable monitoring system for measuring weight-bearing during tibial fracture healing, Med Eng Phys **20**(7) 543-548 (Oct 1998), 4A1578
Principles of urodynamics pressure measurement and its implication to female continence function, J Biomech **31**(9) 861-865 (Sep 1998), 4A1579
Hub dynamometer for measurement of wheel forces in off-road bicycling, J Biomech Eng **121**(1) 132-137 (Feb 1999), 5A1553
Complete calibration of a stereo photogrammetric system through control points of unknown coordinates, J Biomech **31**(10) 935-940 (Oct 1998), 5A1566
Evaluation of a long-range transmitter for use with a magnetic tracking device in motion analysis, J Biomech **31**(10) 957-961 (Oct 1998), 5A1567
Microfabricated modules for sample handling, sample concentration and flow mixing: Application to protein analysis by tandem mass spectrometry, J Biomech Eng **121**(1) 7-12 (Feb 1999), 5A1568
Micromachining in plastics using X-ray lithography for the fabrication of micro-electrophoresis devices, J Biomech Eng **121**(1) 13-21 (Feb 1999), 5A1569
Rapid, automated nucleic acid probe assays using silicon microstructures for nucleic acid concentration, J Biomech Eng **121**(1) 22-27 (Feb 1999), 5A1570
Novel biomimetic acturator system, Robotics Autonomous Syst **25**(1-2) 1-18 (Oct 1998), 6A430
Measuring the shape and size of microcracks in bone, J Biomech **31**(12) 1177-1180 (Dec 1998), 6A1573
Skin movement artefact assessment and compensation in the estimation of knee-joint kinematics, J Biomech **31**(11) 977-984 (Nov 1998), 6A1585
Development and validation of a nanometer manipulation and measurement system for biomechanical testing of single macro-molecules, J Biomech **31**(11) 1075-1079 (Nov 1998), 6A1604
Laser speckle photography to measure surface displacements on cortical bone - verification of an automated analysis system, Med Eng Phys **20**(8) 594-601 (Nov 1998), 6A1605
Bone position estimation from skin marker coordinates using global optimization with joint constraints, J Biomech **32**(2) 129-134 (Feb 1999), 7A1625
Effects of testing methods on the flexural fatigue life of human cortical bone, J Biomech **32**(1) 105-109 (Jan 1999), 7A1626
Measuring system for in vivo recording of force systems in orthodontic treatment-concept and analysis of accuracy, J Biomech **32**(1) 81-85 (Jan 1999), 7A1630
Discrete wavelet transform: A tool in smoothing kinematic data, J Biomech **32**(3) 317-321 (Mar 1999), 8A1592
Numerical study of magnetic resonance images of pulsatile flow in a 2D carotid bifurcation: A numerical study of MR images, Med Eng Phys **20**(9) 643-652 (Nov-Dec 1998), 8A1595
Accuracy of cancellous bone volume fraction measured by micro-CT scanning, J Biomech **32**(3) 323-326 (Mar 1999), 8A1596
In vitro measurement of the tracking pattern of the human patella, J Biomech Eng **121**(2) 222-228 (Apr 1999), 8A1597
Measurement of the deformation of isolated chondrocytes in agarose subjected to cyclic compression, Med Eng Phys **20**(9) 684-688 (Nov-Dec 1998), 8A1598
Method for assessment and processing of biomedical signals containing trend and periodic components, Med Eng Phys **20**(9) 660-668 (Nov-Dec 1998), 8A1599
Nonlinear analysis of the EEG of schizophrenics with optimal embedding dimension, Med Eng Phys **20**(9) 669-676 (Nov-Dec 1998), 8A1600
Precise measurement of cat patellofemoral joint surface geometry with multistation digital photogrammetry, J Biomech Eng **121**(2) 196-205 (Apr 1999), 8A1601
Standardization of a method for characterizing low-concentration biogels: Elastic properties of low-concentration agarose gels, J Biomech Eng **121**(2) 184-187 (Apr 1999), 8A1602
Time-resolved X-ray diffraction from tendon collagen during creep using synchrotron radiation, J Biomech **32**(3) 285-292 (Mar 1999), 8A1603
Automatic segmentation of magnetic resonance images of the trans-femoral residual limb, Med Eng Phys **20**(10) 756-763 (Dec 1998), 9A1558
Estimation of *in vivo* bone mineral density (BMD) and shape characterization for diagnosing osteoporosis by ultrasonic inspection, J Biomech Eng **121**(3) 298-303 (Jun 1999), 9A1560
Advances in fluorescence spectroscopy: Multi-photon excitation, engineered proteins, modulation sensing and microsecond rhenium metal-ligand complexes, Acta Phys Polonica A **95**(1) 179-196 (Jan 1999), 9T1589
Electrocardiogram signal preprocessing for automatic detection of QRS boundaries, Med Eng Phys **21**(1) 37-44 (Jan 1999), 9A1590
Nonuniform swelling-induced residual strains in articular cartilage, J Biomech **32**(4) 401-408 (Apr 1999), 9A1591
Quantification of mitral regurgitation using corrected Doppler measurements, J Biomech Eng **121**(3) 273-280 (Jun 1999), 9A1592
Two-electrode telemetric instrument for infant heart rate and apnea monitoring, Med Eng Phys **20**(10) 729-734 (Dec 1998), 9A1593
Using simulated noise to define optimal QT intervals for computer analysis of ambulatory ECG, Med Eng Phys **21**(1) 15-25 (Jan 1999), 9A1594
Acoustic output levels and ultrasound output display standard, Arch Acoust **23**(2) 267-280 (1998), 10A1639
Calibration of the "Flock of Birds" electromagnetic tracking device and its application in shoulder motion studies, J Biomech **32**(6) 629-633 (Jun 1999), 10A1640
Marker-based measurement procedure for unconstrained wrist and elbow motions, J Biomech **32**(6) 615-621 (Jun 1999), 10A1641
Calibration and application of an intra-articular force transducer for the measurement of patellar tendon graft forces: An in situ evaluation, J Biomech Eng **121**(4) 393-398 (Aug 1999), 11A1648
Estimation of blood perfusion using ultrasound, Proc Inst Mech Eng H **213**(H2) 91-106 (1999), 11A1649
Microcontroller-based sensor to measure serum column height, Mechatronics **9**(4) 329-348 (Jun 1999), 12A471
Estimation of trunk muscle forces using the FEM and in vivo loads measured by telemeterized internal spinal fixation devices, J Biomech **32**(7) 727-731 (Jul 1999), 12A1616
Practical gait analysis system using gyroscopes, Med Eng Phys **21**(2) 87-94 (Mar 1999), 12A1623
Acoustic and ultrasonic tissue characterization, Proc Inst Mech Eng H **213**(H3) 169-292 (1999), 12A1647
Device to measure choice reaction time in karate, Sports Eng **2**(1) 49-54 (Feb 1999), 12A1648
Force transducer to measure individual finger loads during activities of daily living, J Biomech **32**(7) 721-725 (Jul 1999), 12A1649
Measurement of sacromere length during fast contraction of muscle fibers by digital image analysis, J Biomech **32**(7) 737-742 (Jul 1999), 12A1650
New device to quantify regenerate torsional stiffness in distraction osteogenesis, J Biomech **32**(8) 857-860 (Aug 1999), 12A1651
Positron emission tomography, Acta Phys Polonica B **B30**(5) 1619-1628 (May 1999), 12A1652
Three-dimensional localization based on projectional and tomographic image correlation: An application for digital tomosynthesis, Med Eng Phys **21**(2) 101-109 (Mar 1999), 12A1653
Wide band ultrasonic spectroscopy in studying bones and porous implants, J Theor Appl Mech **37**(3) 579-591 (1999), 12A1654

552. HUMAN FACTORS, REHABILITATION, SPORTS

552B. Human factors, ergonomics, man-machine interface

Neal-Smith criteria-based H_∞-modeling technique for assessing pilot rating, J Guidance Control Dyn **21**(4) 656-661 (Jul-Aug 1998), 1T1244
Penn State Safety Floor - Part II: Reduction of fall-related peak impact forces on the femur, J Biomech Eng **120**(4) 527-532 (Aug 1998), 1A1464
Penn State Safety Floor - Part 1: Design parameters associated with walking deflections, J Biomech Eng **120**(4) 518-526 (Aug 1998), 1A1495
Building user model in adaptive human computer interface based on fuzzy mathematics (Chinese), J Shanghai Jiaotong Univ **32**(5) 61-63 (May 1998), 1A1535
Semi-active hydropneumatic spring and damper system, J Terramech **35**(2) 109-117 (Apr 1998), 2A1563
Tractor operator workplace design: A review, J Terramech **35**(1) 41-53 (Jan 1998), 2A1564
Pilot-induced oscillations involving multiple nonlinearities, J Guidance Control Dyn **21**(5) 786-791 (Sep-Oct 1998), 3A1183
Placing the trailing foot closer to an obstacle reduces flexion of the hip, knee, and ankle to increase the risk of tripping, J Biomech **31**(8) 685-691 (Aug 1998), 3A1529
Measurement of lumbar spinal flexion-extension kinematics from lateral radiographs: Simulation of the effects of out-of-plane movement and errors in reference point placement, Med Eng Phys **20**(6) 403-409 (Sep 1998), 3A1559
Repetitive lifting tasks fatigue the back muscles and increase the bending moment acting on the lumbar spine, J Biomech **31**(8) 713-721 (Aug 1998), 3A1566
Safe touch temperatures for hot plates, J Biomech Eng **120**(6) 727-736 (Dec 1998), 3A1567
Stress intensity factors for a vertical surface crack in polyethylene subject to rolling and sliding contact, J Biomech Eng **120**(6) 778-783 (Dec 1998), 3A1568
Validation of a nonlinear automotive seat cushion vibration model, Vehicle Syst Dyn **30**(1) 55-68 (Jul 1998), 4A194
DUMASS: A surgical assist robot for minimal access surgery, Mechatronics **8**(7) 793-803 (Oct 1998), 4A463
Dynamics of effortful touch and interlimb coordination, J Biomech **31**(10) 873-882 (Oct 1998), 5A1552
Assessing aircraft susceptibility to nonlinear aircraft-pilot coupling and pilot-induced oscillations, J Guidance Control Dyn **21**(6) 957-964 (Nov-Dec 1998), 5A1571
Multivariate changes in coordination of postural control following spaceflight, J Biomech **31**(10) 883-889 (Oct 1998), 5A1572
Method for sonar based recognition of walking people, Robotics Autonomous Syst **25**(1-2) 117-126 (Oct 1998), 6T420
Intelligent optimization for mechanical product based on hybrid variable adjustment (Chinese), J Huazhong Univ Sci Tech **26**(10) 42-44 (Oct 1998), 6A1109
Assessment of dynamic finger forces in pianists: Effects of training and expertise, J Biomech **31**(11) 1063-1067 (Nov 1998), 6A1580
Fuzzy comprehensive evaluation of thermal sensation in steady thermal environment (Chinese), J Tsinghua Univ Sci Tech **38**(7) 94-97 (Jul 1998), 6A1606
Assessment of the ride quality of a truckfull trailer combination, Heavy Vehicle Syst **5**(3-4) 208-235 (1998), 7A182
Towards autonomous robotic servicing: Using an integrated hand-arm-eye system for manipulating unknown objects, Robotics Autonomous Syst **26**(1) 23-42 (Jan 1999), 7A414
Visualized human-computer interactive approach to job shop scheduling, Int J Comput Integrated Manuf **12**(1) 75-83 (Jan-Feb 1999), 7T449
Human motion recognition in machine tool operation: System using gyro-acceleration sensor and DP matching (Japanese), J Japan Soc Precision Eng **64**(12) 1747-1751 (Dec 1998), 7A1627
Human-assisted virtual environment modeling for robots, Autonomous Robots **6**(1) 89-103 (Jan 1999), 8A477
Development of a human-computer interactive scheduling system, Int J Comput Integrated Manuf **12**(2) 156-167 (Mar-Apr 1999), 8T514
Surface friction in near-vertex head and neck impact increases risk of injury, J Biomech **32**(3) 293-301 (Mar 1999), 8A1576
Adaptive Morse code recognition using variable degree variable step size LMS for persons with disabilities, Bio-Med Mat Eng **8**(5-6) 343-352 (1998), 8A1604
Performance implications of older workers in technological manufacturing environments: A task-analysis and human reliability perspective, Int J Comput Integrated Manuf **12**(2) 104-112 (Mar-Apr 1999), 8T1605
Tuning nonlinear adaptive compensators in non-ideal noise environment, Med Eng Phys **20**(9) 689-696 (Nov-Dec 1998), 8A1606
Study on an overhead robot arm to assist walking of the elderly - 1st report: Control with force sensors (Japanese), J Japan Soc Precision Eng **65**(1) 116-120 (Jan 1999), 8A1621
Assessment of bed temperature monitoring for detecting body movement during sleep: Comparison with simultaneous video image recording and actigraphy, Med Eng Phys **21**(1) 1-8 (Jan 1999), 9A1595
Methodological and technological implications of quantitative human movement analysis in long term space flights, J Biomech **32**(4) 431-436 (Apr 1999), 9A1596
Evaluation method for walking condition of joint of block pavement (Japanese), Proc JSCE **613**(V-42) 263-268 (Feb 1999), 10A1642
Benefits of human intervention in a CIM environment, Int J Comput Integrated Manuf **12**(4) 291-382 (Jul-Aug 1999), 12A1655

552F. Rehabilitation devices and controls

Clinical investigation of the pressure and shear stress on the trans-tibial stump with a prosthesis, Med Eng Phys **20**(3) 188-198 (Apr 1998), 1A1480
Development of stair climbing wheelchair with leg and wheel system - 2nd Report: Automatic stair climbing tests using stair measurement system by image processor (Japanese), J Japan Soc Precision Eng **64**(6) 840-844 (Jun 1998), 1A1536
Engineered alignment in media equivalents: Magnetic prealignment and mandrel compaction, J Biomech Eng **120**(5) 660-666 (Oct 1998), 1A1537
Flow characteristics of curing polymethyl methacrylate bone cement, Proc Inst Mech Eng H **212**(H3) 199-207 (1998), 1A1538
In-vivo method for biomechanical characterization of bone-anchored implants, Med Eng Phys **20**(3) 216-219 (Apr 1998), 1A1539
Influence of left ventricle assist device and ventilatory support on energy-related cardiovascular variables, Med Eng Phys **20**(2) 83-91 (Mar 1998), 1A1540
Instrumented wheel for kinetic analysis of wheelchair propulsion, J Biomech Eng **120**(4) 533-535 (Aug 1998), 1A1541
Parametric study of acetabular cup design variables using FE analysis and statistical design of experiments, J Biomech Eng **120**(5) 667-675 (Oct 1998), 1A1542
Performance analysis of a cardiac arrest device in counterpulsation, J Biomech Eng **120**(4) 437-445 (Aug 1998), 1A1543
Prediction of transient lubricating film thickness in knee prostheses with compliant layers, Proc Inst Mech Eng H **212**(H3) 157-164 (1998), 1A1544
Preliminary investigation of a novel controlled stiffness proximal femoral prosthesis, Proc Inst Mech Eng H **212**(H3) 165-175 (1998), 1A1545
Simulation of the superelastic response of SMA orthodontic wires, J Biomech Eng **120**(5) 676-685 (Oct 1998), 1A1546
Two-dimensional model of cyclic strain accumulation in ultra-high molecular weight polyethylene knee replacements, Proc Inst Mech Eng H **212**(H3) 189-198 (1998), 1A1547
Variability of the dishabituation of flexion reflexes for FEs assisted gait in spinal injured man, Med Eng Phys **20**(3) 182-187 (Apr 1998), 1A1548
Wear of polyethylene cups in total hip arthoplasty: A parametric mathematical model, Med Eng Phys **20**(3) 199-210 (Apr 1998), 1A1549
Corrosion behavior of sensitized duplex stainless steel, Bio-Med Mat Eng **8**(1) 25-36 (1998), 2A842
Viscoelasticity and aging of dental composites, Bio-Med Mat Eng **8**(1) 45-53 (1998), 2A882
Sliding wear studies of selected nitride coatings and their potential for long-term use in orthopaedic applications, Proc Inst Mech Eng H **212**(H4) 303-315 (1998), 2A1023
Analysis of 3D transient blood flow passing through an artificial aortic valve by Lattice-Boltzmann methods, J Biomech **31**(5) 453-462 (May 1998), 2A1547
Backside nonconformity and locking restraints affect liner-shell load transfer mechanisms and relative motion in modular acetabular components for total hip replacement, J Biomech **31**(5) 431-437 (May 1998), 2A1565
Design of a vibration transducer to monitor the integrity of dental implants, Proc Inst Mech Eng H **212**(H4) 265-272 (1998), 2A1566
Effect of material property representation on stresses in endoprostheses, Bio-Med Mat Eng **8**(1) 11-23 (1998), 2A1567
In vitro simulation of contact fatigue damage found in ultra-high molecular weight polyethylene components of knee prostheses, Proc Inst Mech Eng H **212**(H4) 293-302 (1998), 2A1568
Pressure variation under the ischial tuberosity during a push cycle, Med Eng Phys **20**(4) 242-256 (Jun 1998), 2A1569
Three-dimensional FE analysis of thermal shock in a premolar with a composite resin MOD restoration, Med Eng Phys **20**(4) 269-275 (Jun 1998), 2A1570
Finite element modeling of a residual lower-limb in a prosthetic socket: A survey of the development in the first decade, Med Eng Phys **20**(5) 360-373 (Jul 1998), 3A36
Energy dissipation-based model for damage stimulated bone adaptation, J Biomech **31**(7) 579-586 (Jul 1998), 3A1513
Architectural concepts of a semi-autonomous wheelchair, J Intelligent & Robotic Syst **22**(3-4) 233-253 (Jul 1998), 3A1569
Circumferentially flexible vascular grafts, J Biomech **31**(8) 705-711 (Aug 1998), 3A1570
Design issues of a semi-autonomous robotic assistant for the health care environment, J Intelligent & Robotic Syst **22**(3-4) 191-209 (Jul 1998), 3A1571
Effects of static magnetic field on bone formation of rat femurs, Med Eng Phys **20**(6) 397-402 (Sep 1998), 3A1572
Increasing intelligence in autonomous wheelchairs, J Intelligent & Robotic Syst **22**(3-4) 211-232 (Jul 1998), 3A1573

Integration strategies using a modular architecture for mobile robots in the rehabilitation field, J Intelligent & Robotic Syst **22**(3-4) 181-190 (Jul 1998), 3A1574
Man-machine cooperation for the control of an intelligent powered wheelchair, J Intelligent & Robotic Syst **22**(3-4) 269-287 (Jul 1998), 3A1575
Optimal patterns for suturing wounds, J Biomech **31**(7) 653-662 (Jul 1998), 3A1576
Pin force measurement in a halo-vest orthosis, *in vivo*, J Biomech **31**(7) 647-651 (Jul 1998), 3A1577
Placing a bone graft more posteriorly may reduce the risk of pedicle screw breakage: Analysis of an unexpected case of pedicle screw breakage, J Biomech **31**(8) 763-767 (Aug 1998), 3A1578
Self-localization in the "SENARIO" autonomous wheelchair, J Intelligent & Robotic Syst **22**(3-4) 255-267 (Jul 1998), 3A1579
Three-dimensional analysis of a fiber-reinforced aortic valve prosthesis, J Biomech **31**(7) 629-638 (Jul 1998), 3A1580
Time-frequency analysis of the noise produced by the closing of artificial heart valves: An in vitro study, Med Eng Phys **20**(6) 418-431 (Sep 1998), 3A1581
Virtual artificial sensor technique for functional electrical stimulation, Med Eng Phys **20**(6) 458-468 (Sep 1998), 3A1582
Corrosion resistance and ion dissolution of titanium with different surface microroughness, Bio-Med Mat Eng **8**(2) 61-74 (1998), 4A782
Portable monitoring system for measuring weight-bearing during tibial fracture healing, Med Eng Phys **20**(7) 543-548 (Oct 1998), 4A1578
Association between rates of wear in retrieved acetabular components and the radius of the femoral head, Proc Inst Mech Eng H **212**(H5) 321-326 (1998), 4A1580
Contact stress at articular surfaces in total joint replacements - Part I: Experimental methods, Bio-Med Mat Eng **8**(2) 91-110 (1998), 4A1581
Design of an optimized portable artificial kidney system using recirculation and regeneration of dialysate, Proc Inst Mech Eng H **212**(H5) 373-381 (1998), 4A1582
Development of artificial articular cartilage - PVA-hydrogel, Bio-Med Mat Eng **8**(2) 75-81 (1998), 4A1583
Frictional behavior of explanted PCA hip prostheses, Proc Inst Mech Eng H **212**(H5) 395-397 (1998), 4A1584
Intelligent control system for ventilators, Med Eng Phys **20**(7) 534-542 (Oct 1998), 4A1585
Shape memory and superelastic alloys: The new medical materials with growing demand, Bio-Med Mat Eng **8**(2) 55-60 (1998), 4A1586
Micromachining in plastics using X-ray lithography for the fabrication of micro-electrophoresis devices, J Biomech Eng **121**(1) 13-21 (Feb 1999), 5A1569
Biomaterials: Part 2, Proc Inst Mech Eng H **212**(H6) 399-500 (1998), 5A1573
Contoured elastic-membrance microvalves for microfluidic network integration, J Biomech Eng **121**(1) 2-6 (Feb 1999), 5A1574
Effect of graft caliber upon wall shear within *in vivo* distal vascular anastomoses, J Biomech Eng **121**(1) 79-88 (Feb 1999), 5A1575
Finite element analysis of anterior tooth root stresses developed during endodontic treatment, J Biomech Eng **121**(1) 108-115 (Feb 1999), 5A1576
Functional adaptation and ingrowth of bone vary as a function of hip implant stiffness, J Biomech **31**(10) 909-917 (Oct 1998), 5A1577
Ionic polymer-metal composites as biomimetic sensors, actuators and artificial muscles: A review, Smart Mat Struct **7**(6) R15-R30 (Dec 1998), 6A419
Development of computer assisted systems for manufacturing dental prosthetic - 1st Report: Representation of organic shape and designing system for a dental crown, J Japan Soc Precision Eng **64**(11) 1603-1607 (Nov 1998), 6A1607
Hip joint prosthesis design: Effect of stem introducers, Med Eng Phys **20**(8) 620-624 (Nov 1998), 6A1608
Study on stability and kinematic function of above knee prostheses (Chinese), J Tsinghua Univ Sci Tech **38**(8) 1-4 (Aug 1998), 6A1609
Effect of the engineering properties of treadmill surfaces on the performance of athletes in a submaximal test, Sports Eng **1**(1) 57-62 (Sep 1998), 6T1612
Design of guide surfaces for fixed-bearing and mobile-bearing knee replacements, J Biomech **32**(1) 27-34 (Jan 1999), 7A1628
Development of a welfare machine with pneumatic actuator - 1st Report: Lifting machine using parallel mechanism (Japanese), J Japan Soc Precision Eng **64**(12) 1773-1778 (Dec 1998), 7A1629
Measuring system for in vivo recording of force systems in orthodontic treatment-concept and analysis of accuracy, J Biomech **32**(1) 81-85 (Jan 1999), 7A1630
Development of computer assisted systems for manufacturing dental prosthetic - 2nd Report: Development of crown design system (Japanese), J Japan Soc Precision Eng **65**(2) 255-259 (Feb 1999), 8A495
Centering mechanism for soft contact lenses, J Biomech Eng **121**(2) 188-195 (Apr 1999), 8A1607
Conflicting requirements of laxity and conformity in total knee replacement, J Biomech **32**(3) 239-247 (Mar 1999), 8A1608
Contact analysis of a posterior cervical spine plate using a 3D canine FEM, J Biomech Eng **121**(2) 206-214 (Apr 1999), 8A1609
Contact stress at articular surfaces in total joint replacements - Part II: Analytical and numerical methods, Bio-Med Mat Eng **8**(5-6) 259-278 (1998), 8A1610
Correlation between hydroxyapatite osseointegration and Young's modulus, Med Eng Phys **20**(9) 697-701 (Nov-Dec 1998), 8A1611
Effect of phospholipidic boundary lubrication in rigid and compliant hemiarthroplasty models, Proc Inst Mech Eng H **213**(H1) 5-18 (1999), 8A1612
Effect of surface roughness on the stress adaptation of trabecular architecture around a cylindrical implant, J Biomech **32**(3) 275-284 (Mar 1999), 8A1613
Finite element analysis of a gamma nail within a fractured femur, Med Eng Phys **20**(9) 677-683 (Nov-Dec 1998), 8A1614
Harvest of patellar tendon (bone-tendon-bone) autograft for ACL reconstruction significantly alters surface strain in the human patella, J Biomech Eng **121**(2) 229-233 (Apr 1999), 8A1615
Improvement of the friction behavior of NiTi orthodontic archwires by nitrogen diffusion, Bio-Med Mat Eng **8**(5-6) 335-342 (1998), 8A1616
Methodology for examining the plausibility of accelerated aging protocols for UHMWPE components, Bio-Med Mat Eng **8**(5-6) 285-298 (1998), 8A1617
Non-destructive and non-invasive observation of friction and wear of human joints and of fracture initiation by acoustic emission, Proc Inst Mech Eng H **213**(H1) 41-48 (1999), 8A1618
On-line computer system to minimize laser injuries during surgery: Preliminary system layout and proposal of the key features, Proc Inst Mech Eng H **213**(H1) 69-76 (1999), 8A1619
Press-fit acetabular cup fixation: Principles and testing, Proc Inst Mech Eng H **213**(H1) 33-39 (1999), 8A1620
Study on an overhead robot arm to assist walking of the elderly - 1st report: Control with force sensors (Japanese), J Japan Soc Precision Eng **65**(1) 116-120 (Jan 1999), 8A1621
Three-dimensional surface characterization for orthopaedic joint prostheses, Proc Inst Mech Eng H **213**(H1) 49-68 (1999), 8A1622
Trail of bioengineering: From artificial organ to cultured organ (Japanese), J Japan Soc Precision Eng **65**(1) 60-65 (Jan 1999), 8T1623
Catheter obstruction effect on pulsatile flow rate-pressure drop during coronary angioplasty, J Biomech Eng **121**(3) 281-289 (Jun 1999), 9A1580
Design and analysis of a manually powered wheelchair capable of traversing steps by pneumatic actuation, JSME Int J Ser C **40**(3) 425-432 (Sep 1997), 9A1597
Design and development of a gloveless endoskeletal prosthetic hand, J Rehab Res Dev **35**(4) 388-395 (Oct 1998), 9A1598
In vitro study of implant-tooth-supported connections using a robot test system, J Biomech Eng **121**(3) 290-297 (Jun 1999), 9A1599
Integrated system for the production of field shaping devices in radiotherapy, Med Eng Phys **21**(1) 45-51 (Jan 1999), 9T1600
Retention of supportive properties by eggcrate and foam wheelchair cushions, J Rehab Res Dev **35**(4) 396-404 (Oct 1998), 9A1601
Robust optimization of total joint replacements incorporating environmental variables, J Biomech Eng **121**(3) 304-310 (Jun 1999), 9A1602
Strength requirements for internal and external prostheses, J Biomech **32**(4) 381-393 (Apr 1999), 9A1603
Wearable tremor-suppression orthosis, J Rehab Res Dev **35**(4) 373-387 (Oct 1998), 9A1604
Microdamage accumulation in the cement layer of hip replacements under flexural loading, J Biomech **32**(5) 467-475 (May 1999), 10A1643
Two-dimensional FE analyses and histomorphology of lag screws with and without a biconcave washer, J Biomech **32**(5) 511-520 (May 1999), 10A1644
Effects of design and configuration on the biomechanical response of an internal spinal fixator, Proc Inst Mech Eng H **213**(H2) 137-146 (1999), 11A1650
Influence of lubricant on the morphology of ultra-high molecular weight polyethylene wear debris generated in laboratory tests, Proc Inst Mech Eng H **213**(H2) 155-158 (1999), 11A1651
Influence of the rheological properties of bone tissue on load transfer conditions in an implanted hip joint, Appl Mech Eng **4**(S) 157-162 (1999), 11T1652
Multi-station hip joint simulator study of the performance of 22 mm diameter zirconia-ultra-high molecular weight polyethylene total replacement hip joints, Proc Inst Mech Eng H **213**(H2) 77-90 (1999), 11A1653
Review of metallic, ceramic and surface-treated metals used for bearing surfaces in human joint replacements, Proc Inst Mech Eng H **213**(H2) 107-135 (1999), 11A1654
Development of computer assisted systems for manufacturing dental prosthetic - Part III: Development of 3D measuring device for dental CAD-CAM system (Japanese), J Japan Soc Precision Eng **65**(5) 741-745 (May 1999), 12A538
Fatigue damage and reliability assessment of cemented hip prosthesis, J Theor Appl Mech **37**(3) 505-518 (1999), 12A1601
Numerical evaluation of sensitivity of stress distribution in bone to geometric parameters of endoprosthesis, J Theor Appl Mech **37**(3) 555-577 (1999), 12A1608
Numerical simulation of bone-implant systems using a more realistic model of the contact interfaces with adhesion, J Theor Appl Mech **37**(3) 659-686 (1999), 12A1610
Nonlinear dynamic respiratory modeling with application to intensive care medicine, Nonlinear Anal **38**(1) 41-58 (Oct 1999), 12T1633
Laboratory analysis of superelastic NiTi compression springs, Med Eng Phys **21**(2) 119-125 (Mar 1999), 12A1638
Biomechanical aspects of artificial joint implantation in a lower limb, J Theor Appl Mech **37**(3) 455-479 (1999), 12A1656
Design and manufacturing of the human bone endoprostheses using computer-aided systems, J Theor Appl Mech **37**(3) 481-503 (1999), 12A1657
Effect of bone quality on the forces generated by compression screws, J Biomech **32**(8) 861-864 (Aug 1999), 12A1658
Hip joint implants: Survey of numerical modeling, J Theor Appl Mech **37**(3) 435-454 (1999), 12A1659
Mathematical stiffness matrix for characterizing mechanical performance of the orthofix DAF, Med Eng Phys **21**(2) 65-71 (Mar 1999), 12A1660
Mechanical energetic processes during the giant swing exercise before dismounts and flight elements on the high bar and the uneven parallel bars, J Biomech **32**(8) 811-820 (Aug 1999), 12A1661
Relation between surface roughness and interfacial shear strength for bone-anchored implants: A mathematical model, J Biomech **32**(8) 829-836 (Aug 1999), 12A1662

552K. Sports mechanics

Proceedings of an International Conference on heart rate monitoring and exercise, December 6, 1997, Cape Town, S Africa, J Sports Sci **16**(S) 3-110 (1998), 1T1550
Second Annual Congress of the European College of Sport Science: Sport science in a changing world of sports, J Sports Sci **16**(5) 389-527 (Jul 1998), 1T1551
Eccentric training does not increase sarcomere number in rabbit dorsiflexor muscles, J Biomech **31**(5) 499-501 (May 1998), 2A1531
Anthropometric-based selection and sprint kayak training in children, J Sports Sci **16**(6) 539-543 (Aug 1998), 2A1571
Comparisons of the ski turn techniques of experienced and intermediate skiers, J Sports Sci **16**(6) 545-559 (Aug 1998), 2T1572
Heart rate, blood lactate and kinematic data of elite colts (under-19) rugby union players during competition, J Sports Sci **16**(6) 561-570 (Aug 1998), 2T1573
Individual effects on biomechanical variables during landing in tennis shoes with varying midsole density, J Sports Sci **16**(6) 531-537 (Aug 1998), 2A1574
Springboard oscillation during hurdle flight, J Sports Sci **16**(6) 571-583 (Aug 1998), 2A1575
Speed dependency of motion pattern consistency, J Biomech **31**(9) 769-772 (Sep 1998), 4A1556
Assessment of the lactate and ventilatory thresholds by breathing frequency in runners, J Sports Sci **16**(7) 667-675 (Oct 1998), 4T1587
Comparison of the intra-cyclic velocity variation in breaststroke swimmers with flat and undulating styles, J Sports Sci **16**(7) 653-665 (Oct 1998), 4A1588
Effect of a hot environment on performance of prolonged, intermittent, high-intensity shuttle running, J Sports Sci **16**(7) 677-686 (Oct 1998), 4A1589
Science and medicine of rowing: A review, J Sports Sci **16**(7) 603-620 (Oct 1998), 4A1590
Time course of recovery of vertical jump height and heart rate versus running speed after a 90-km foot race, J Sports Sci **16**(7) 645-651 (Oct 1998), 4A1591
Center of percussion of tennis rackets: A concept of limited applicability, Sports Eng **1**(1) 17-25 (Sep 1998), 6A1610
Dynamic models of golf clubs, Sports Eng **1**(1) 41-50 (Sep 1998), 6A1611
Effect of the engineering properties of treadmill surfaces on the performance of athletes in a submaximal test, Sports Eng **1**(1) 57-62 (Sep 1998), 6T1612
Mathematical high bar-human body model for analyzing and interpreting mechanical-energetic processes on the high bar, J Biomech **31**(12) 1083-1092 (Dec 1998), 6A1613
Mechanical analysis of equipment for the game of hurling, Sports Eng **1**(1) 3-16 (Sep 1998), 6A1614
Changes in muscle-tendon length during the take-off of a running long jump, J Sports Sci **17**(2) 159-172 (Feb 1999), 7A1609
Comparison of physiological responses to rowing on friction-loaded and air-braked ergometers, J Sports Sci **17**(2) 143-149 (Feb 1999), 7A1631
Determining propulsive force in front crawl swimming: A comparison of two methods, J Sports Sci **17**(2) 97-105 (Feb 1999), 7A1632
Morphological variation analysis of the repeatability of soccer offensive schemes, J Sports Sci **17**(2) 89-95 (Feb 1999), 7A1633
Experimental and theoretical simulations of climbing falls, Sports Eng **1**(2) 79-91 (Nov 1998), 8A1578
Analysis of ankle deflection during a forward fall in snowboarding, J Biomech Eng **121**(2) 243-248 (Apr 1999), 8A1624
Biomechanical testing and sport equipment design, Sports Eng **1**(2) 93-105 (Nov 1998), 8A1625
Improving cycling performance with large sprockets, Sports Eng **1**(2) 107-113 (Nov 1998), 8A1626
Study of the dynamics of the golf club, Sports Eng **1**(2) 115-124 (Nov 1998), 8A1627
Sweet spots of a tennis racquet, Sports Eng **1**(2) 63-78 (Nov 1998), 8A1628
Analysis of golf impact phenomenon and ball trajectory, JSME Int J Ser C **41**(4) 822-828 (Dec 1998), 9A1605
Theoretical analysis of preferred pedaling rate selection in endurance cycling, J Biomech **32**(4) 409-415 (Apr 1999), 9A1606
Modeling, simulation and optimization of a human vertical jump, J Biomech **32**(5) 521-530 (May 1999), 10A1613
Bioenergetics of optimal performances in middle-distance and long-distance track running, J Biomech **32**(5) 461-465 (May 1999), 10A1645
Quantification of structural loading during off-road cycling, J Biomech Eng **121**(4) 399-405 (Aug 1999), 11A1655
Method for optimizing sail design, Sports Eng **2**(1) 35-48 (Feb 1999), 12A1242
Effect of muscle stiffness and damping on simulated impact force peaks during running, J Biomech **32**(8) 849-856 (Aug 1999), 12A1615
Device to measure choice reaction time in karate, Sports Eng **2**(1) 49-54 (Feb 1999), 12A1648
Dynamic properties of tennis balls, Sports Eng **2**(1) 23-33 (Feb 1999), 12A1663
Effect of tennis racket string vibration dampers on racket handle vibrations and discomfort following impacts, J Sports Sci **17**(5) 379-385 (May 1999), 12A1664
Hydrodynamics optimization in butterfly swimming: Position, drag coefficient and performance, J Biomech **32**(8) 803-810 (Aug 1999), 12A1665
Influence of stick stiffness on the performance of ice hockey slap shots, Sports Eng **2**(1) 3-11 (Feb 1999), 12A1666
Muscular soreness following prolonged intermittent high-intensity shuttle running, J Sports Sci **17**(5) 387-395 (May 1999), 12A1667
New golf-swing robot model emulating golfer's skill, Sports Eng **2**(1) 13-22 (Feb 1999), 12A1668
Runners adjust leg stiffness for their first step on a new running surface, J Biomech **32**(8) 787-794 (Aug 1999), 12A1669
Simulation of a turning ski using ice cutting data, Sports Eng **2**(1) 55-64 (Feb 1999), 12A1670

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Selected Works on Biomechanics and Aeroelasticity (World Sci Pub, River Edge, NJ, 1997) 3R31
Concise Polymeric Materials Encyclopedia (CRC Press, Boca Raton FL, 1998) 5N41
Measurement, Instrumentation, and Sensors Handbook (CRC Press, Boca Raton FL, 1999) 10N9
Influence Functions and Matrices (Marcel Dekker, New York, 1999) 11R34
Materials Selector on CD-ROM (CRC Press, Boca Raton FL, 1999) 11N35
Relating Materials Properties to Structure: Handbook and Software for Polymer Calculations and Materials Properties (Technomic, Lancaster PA, 1999) 11N36
Trends in Applications of Mathematics to Mechanics (CRC Press, Boca Raton FL, 1999) 11N37
Nature of Mathematical Modeling (Cambridge UP, UK, 1999) 12R37
Computational Methods and Experimental Measurements IX (Comput Mech, Billerica MA, 1999) 12N38

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